Access DB# 141,821

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: JANIS DOTE Examiner #: 65274 Date: 3/4/05
Art Unit: 1756 Phone Number 30~~5~~571-272-1352 Serial Number: 10/775,429
Mail Box and Bldg/Room Location: 9015 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cinnamophotoreceptors with azene-based compounds

Inventors (please provide full names): MUSTAFA Jubran; Zbigniew Jakubski; Kan Law

Earliest Priority Filing Date: 4/20/03

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

Please search compounds in attached claims 21-27.

Examples of compounds from specification are also attached

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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: Mike	NA Sequence (#)	STN 371.93
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#) 1	Questel/Orbit
Date Searcher Picked Up: 3/14/05	Bibliographic	Dr.Link
Date Completed: 3/14/05	Litigation	Lexis/Nexis
Searcher Prep & Review Time: 60	Fulltext	Sequence Systems
Clerical Prep Time: 30	Patent Family	WWW/Internet
Online Time: 150	Other	Other (specify)

PTO-1590 (8-01)

STIC Search Report
EIC 1700

STIC Database Tracking Number: 146821

TO: Janis Dote **Location: Rem9C75** **Art Unit : 1756** **March 14, 2005** **Case Serial Number: 10/775429**	**From: Usha Shrestha** **Location: EIC 1700** **REMSEN 4B28** **Phone: 571/272-3519** **usha.shrestha@uspto.gov**

Search Notes

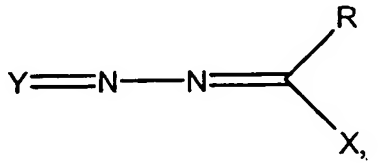
17. An electrophotographic imaging process according to claim 15 wherein the solubilizing substituent comprises a $-C(=O)O-R_5$ group where R_5 is an alkyl group, an alkenyl group, or an aromatic group.

18. An electrophotographic imaging process according to claim 15 wherein the 9-fluorenylidene group further comprises at least a substituent selected from the group consisting of a halogen, a NO_2 group, a cyano group, a hydroxyl group, a thiol group, a carboxyl group, an amine group, an ester group, an alkyl group, an alkoxy group, an alkenyl group, and an aromatic group.

19. An electrophotographic imaging process according to claim 15 wherein the photoconductive element further comprises a second charge transport material.

20. An electrophotographic imaging process according to claim 19 wherein the second charge transport material comprises an electron transport compound.

21. A charge transport material having the following formula,



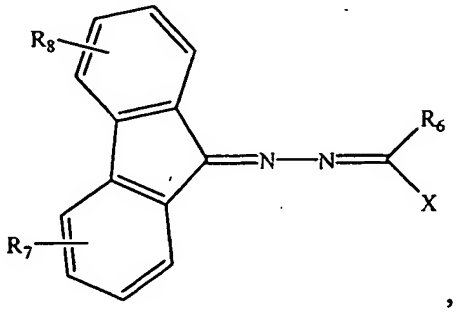
where R comprises a hydrogen, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group; X comprises an arylamine group; and Y comprises a 9-fluorenylidene group having at least a solubilizing substituent, wherein the solubilizing substituent comprises a $-(CH_2)_nH$ group where n is an integer between 1 and 50, and one or more of the methylene groups is optionally replaced by O, S, N, C, B, Si, P, C=O, O=S=O, a heterocyclic group, an aromatic group, an NR_a group, a CR_b group, a CR_cR_d group, or a SiR_eR_f where R_a, R_b, R_c, R_d, R_e, and R_f are, each independently, a bond, H, a hydroxyl group, a thiol group, a carboxyl group, an amino group, an alkyl group, an alkoxy group, an alkenyl group, a heterocyclic group, an aromatic group, or part of a ring group.

22. A charge transport material according to claim 21 wherein X comprises a p-(N,N-disubstituted)arylamine group, a carbazole group, or a julolidine group.

23. A charge transport material according to claim 21 wherein the solubilizing substituent comprises a $-C(=O)O-R_5$ group where R_5 is an alkyl group, an alkenyl group, or an aromatic group.

24. A charge transport material according to claim 21 wherein the 9-fluorenylidene group further comprises at least a substituent selected from the group consisting of a halogen, a NO_2 group, a cyano group, a hydroxyl group, a thiol group, a carboxyl group, an amine group, an ester group, an alkyl group, an alkoxy group, an alkenyl group, and an aromatic group.

25. A charge transport material according to claim 21 wherein the charge transport material has formula:



,

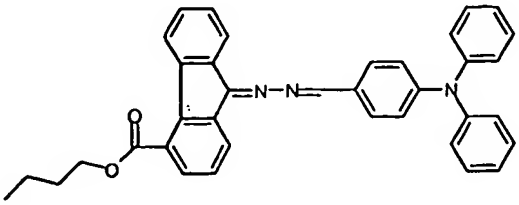
where R_6 comprises a hydrogen, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group; R_7 comprises a $-(CH_2)_nH$ group where n is an integer between 1 and 50, and one or more of the methylene groups is optionally replaced by O, S, N, C, B, Si, P, C=O, O=S=O, a heterocyclic group, an aromatic group, an NR_a group, a CR_b group, a CR_cR_d group, or a SiR_eR_f where R_a, R_b, R_c, R_d, R_e, and R_f are, each independently, a bond, H, a hydroxyl group, a thiol group, a carboxyl group, an amino group, an alkyl group, an alkoxy group, an alkenyl group, a heterocyclic group, an aromatic group, or part of a ring group; R_8 comprises a hydrogen, a halogen, a NO_2 group, a cyano group, a hydroxyl group, a thiol group, a carboxyl group, an amine group,

an ester group, an alkyl group, an alkoxy group, an alkenyl group, or an aromatic group; and X comprises an arylamine group.

26. A charge transport material according to claim 25 wherein R_8 is a hydrogen and R_7 comprises a -C(=O)O-R_{13} group where R_{13} is an alkyl group, an alkenyl group, or an aromatic group.

27. A charge transport material according to claim 25 wherein X comprises a p-(N,N-disubstituted)arylamine group, a carbazole group, or a julolidine group.

Specific, non-limiting examples of suitable charge transport materials within the general structure of the present invention have the following structures.



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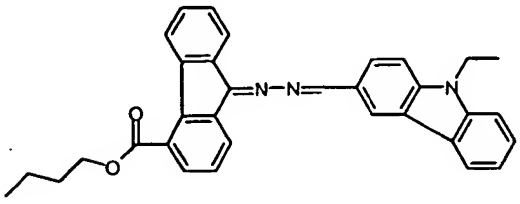

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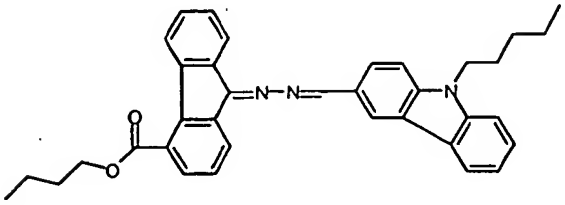

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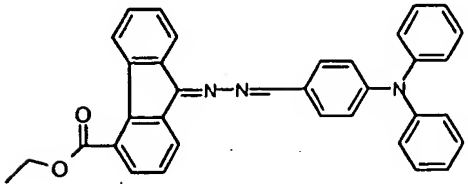

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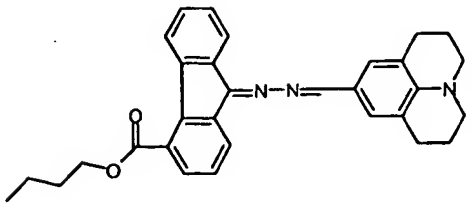

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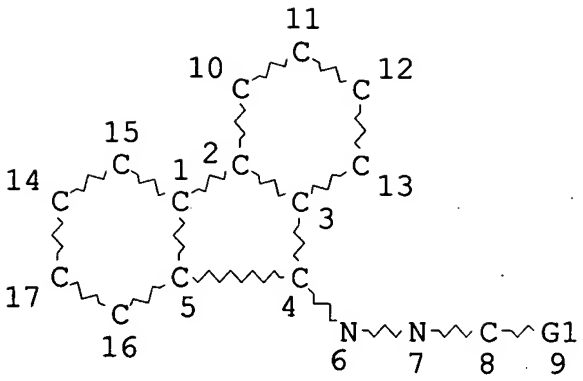

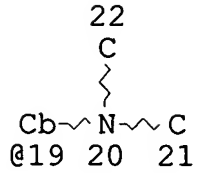

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L12 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:1965 CAPLUS
DOCUMENT NUMBER: 142:103066
TITLE: Azine-based dimeric charge transport materials

USHA SHRESTHA REM 4B28

INVENTOR(S): Tokarski, Zbigniew; Jubran, Nusrallah; Getautis, Vytautas; Gaidelis, Valentas; Daskeviciene, Maryte; Montrimas, Edmundas; Paulauskaite, Ingrida; Sidaravicius, Jonas
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004265717	A1	20041230	US 2004-760039	20040116
EP 1494080	A1	20050105	EP 2004-253868	20040629
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
JP 2005025192	A2	20050127	JP 2004-194403	20040630

PRIORITY APPLN. INFO.: US 2003-483726P P 20030630
US 2004-760039 A 20040116

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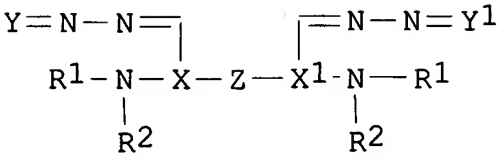


I

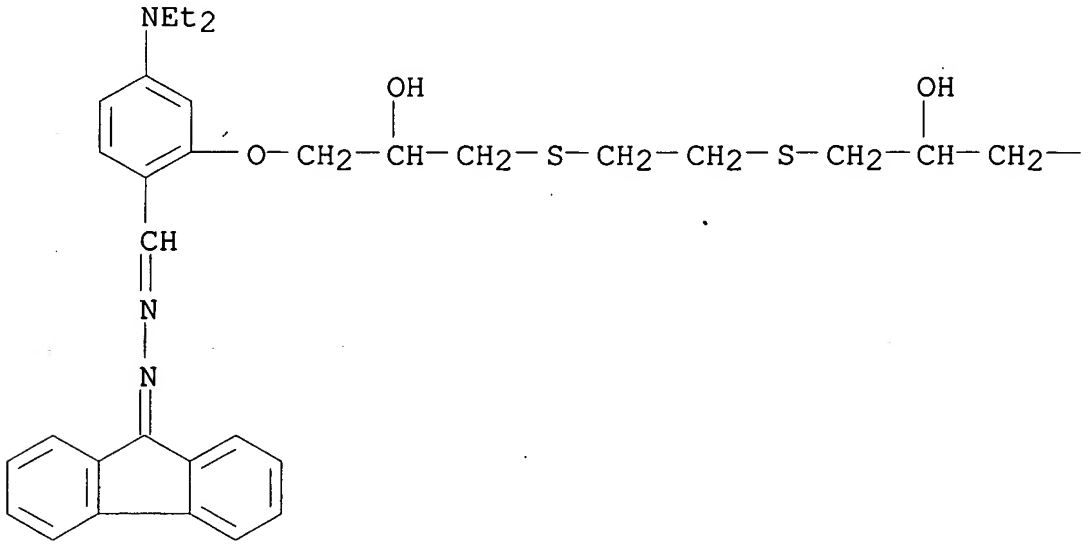
AB Improved organo photoreceptor comprises an elec. conductive substrate and a photoconductive element on the elec. conductive substrate, the photoconductive element comprising: (a) a charge transport material having the formula I (R1-4 = alkyl group, alkenyl group, aromatic group, heterocyclic group, or a part of a ring group; X and X' = aromatic group; Y and Y' = (disubstituted)methylene group; and Z is a linking group); (b) a charge generating compound; and (c) an elec. conductive substrate on which said charge transport material and said charge generating compound are located. Corresponding electrophotog. apparatuses and imaging methods are also described.

IT **816463-93-1P 816463-94-2P 816463-95-3P 816463-96-4P 816463-97-5P 816463-98-6P 816463-99-7P 816464-00-3P 816464-01-4P**
(azine-based dimeric charge transport materials for electrophotog.)

RN 816463-93-1 CAPLUS

CN Benzaldehyde, 2,2'-[1,2-ethanediylbis[thio(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(9H-fluoren-9-ylidenehydrazone) (9CI) (CA INDEX NAME)

PAGE 1-A



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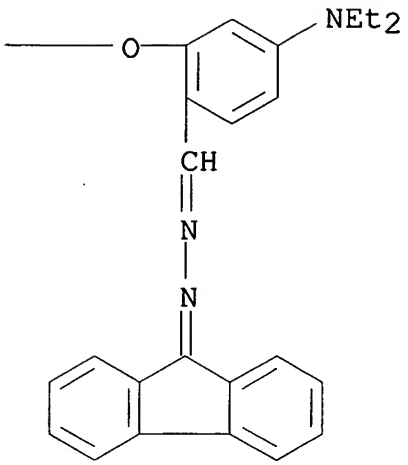
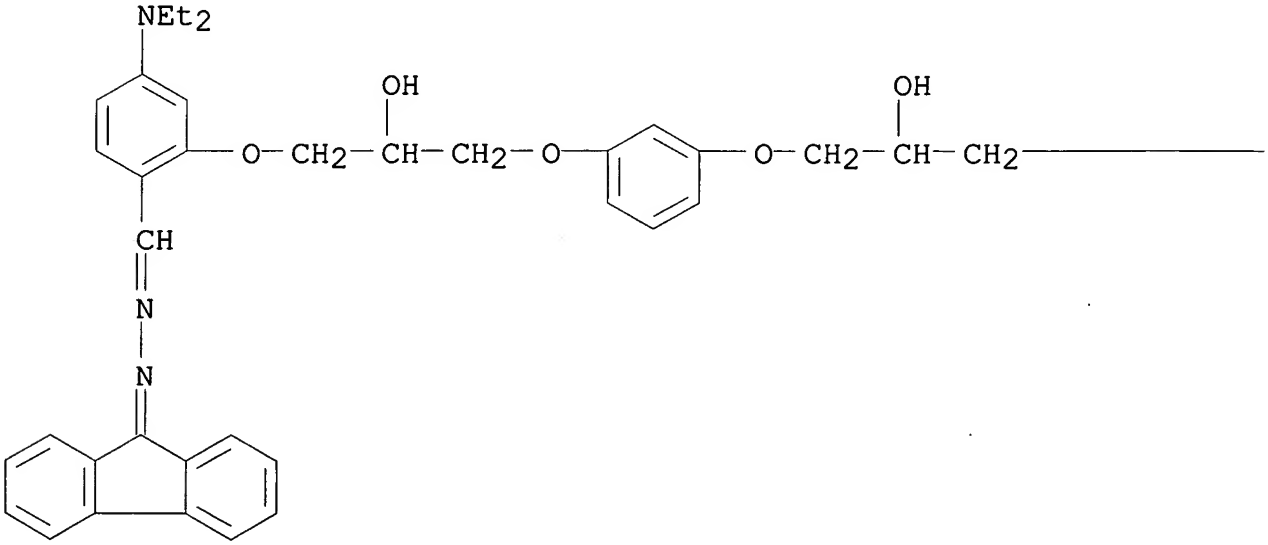


RN 816463-94-2 CAPLUS
CN Benzaldehyde, 2,2'-[1,3-phenylenebis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(9H-fluoren-9-ylidenehydrazone) (9CI) (CA INDEX NAME)

PAGE 1-A



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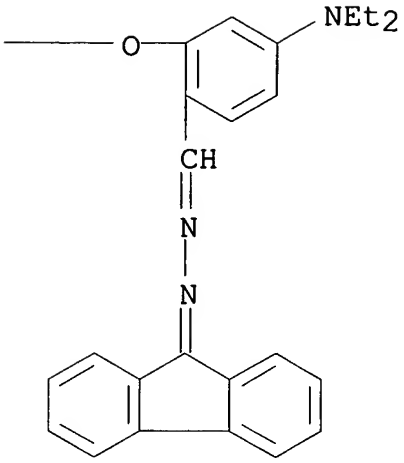

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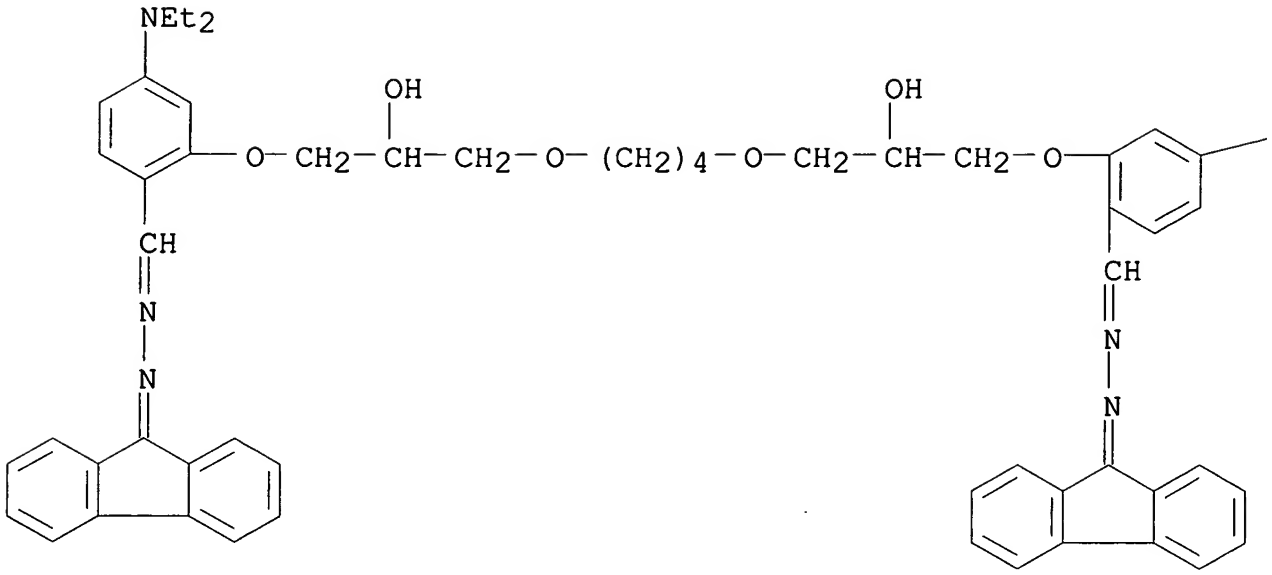
CN Benzaldehyde, 2,2'-[1,4-butanediylbis[oxy(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(9H-fluoren-9-ylidenehydrazone) (9CI) (CA INDEX NAME)

PAGE 1-A



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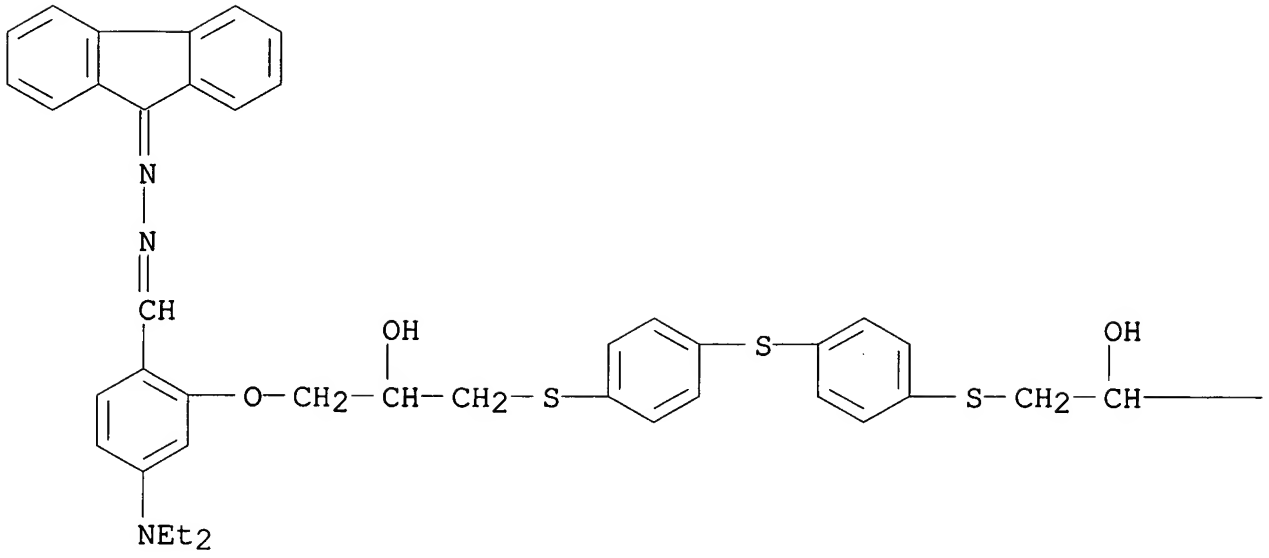
—NEt_2

RN 816463-96-4 CAPLUS
CN Benzaldehyde, 2,2'-[thiobis[4,1-phenylenethio(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis(9H-fluoren-9-ylidenehydrazone) (9CI) (CA INDEX NAME)

PAGE 1-A



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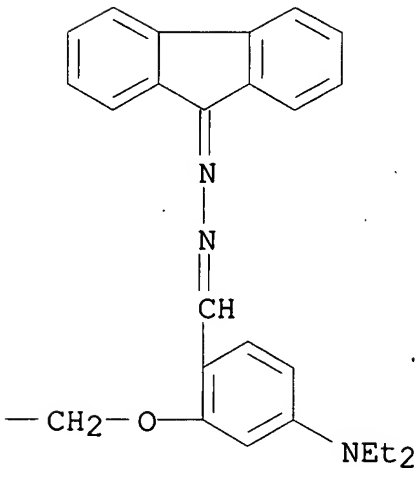

RN 816463-97-5 CAPLUS
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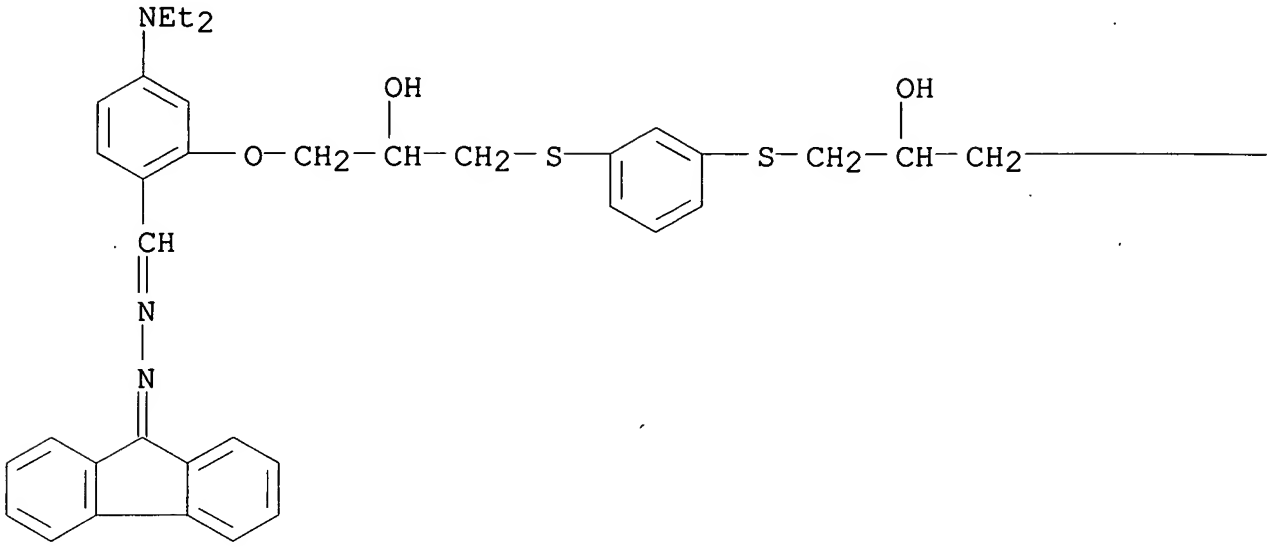
PAGE 1-A



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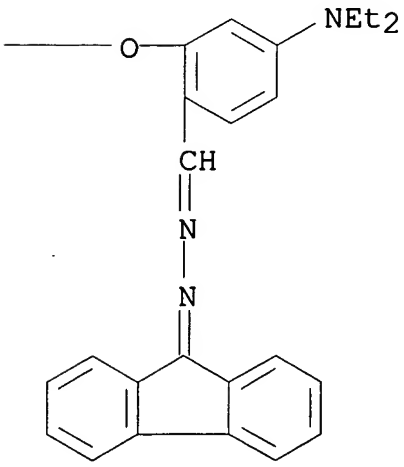

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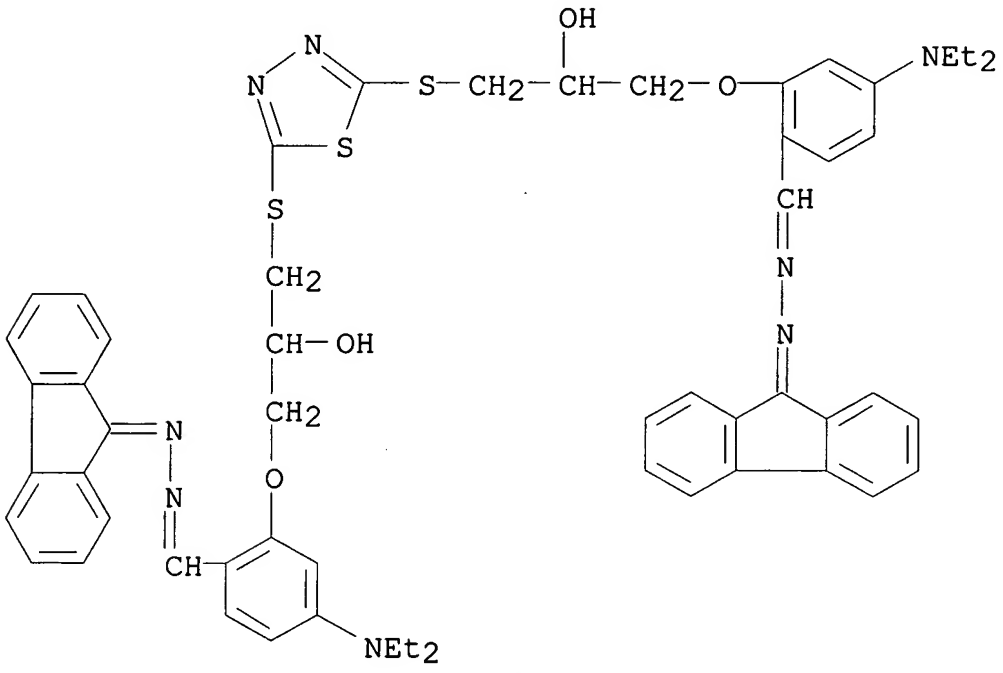

RN 816463-99-7 CAPLUS
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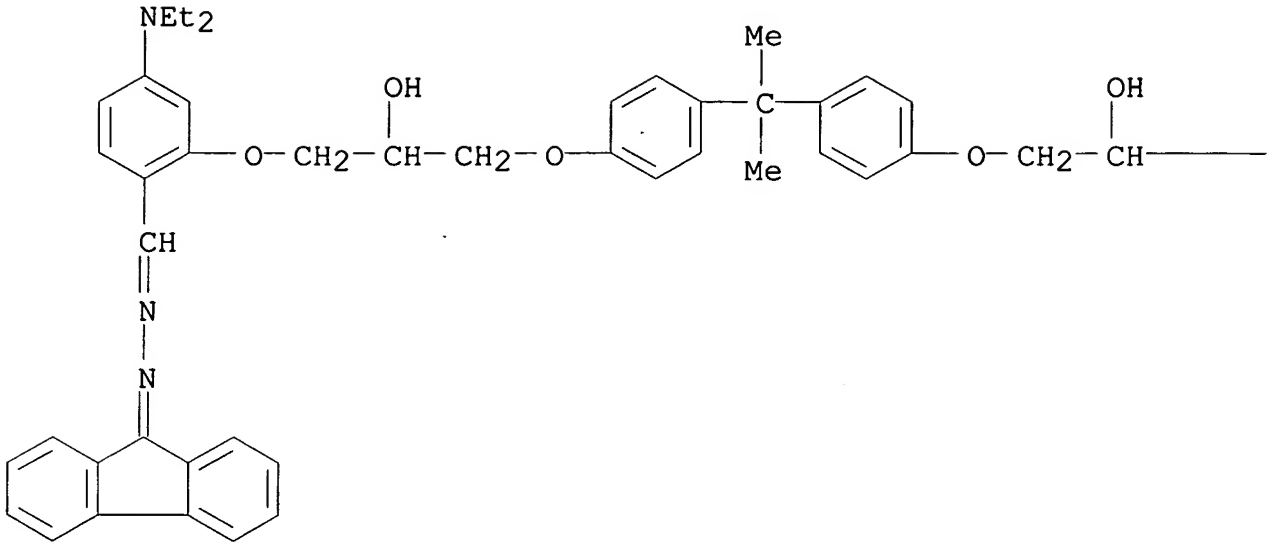
PAGE 1-A



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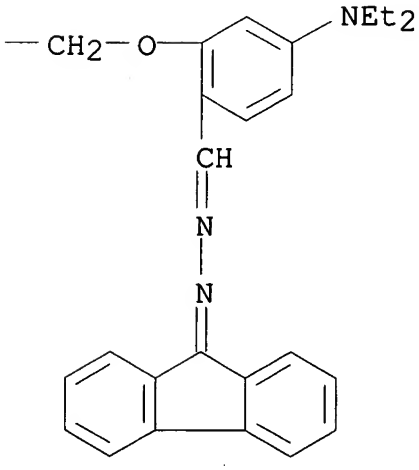

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CN Benzaldehyde, 2,2'-[thiobis[4,1-phenylenethio(2-hydroxy-3,1-

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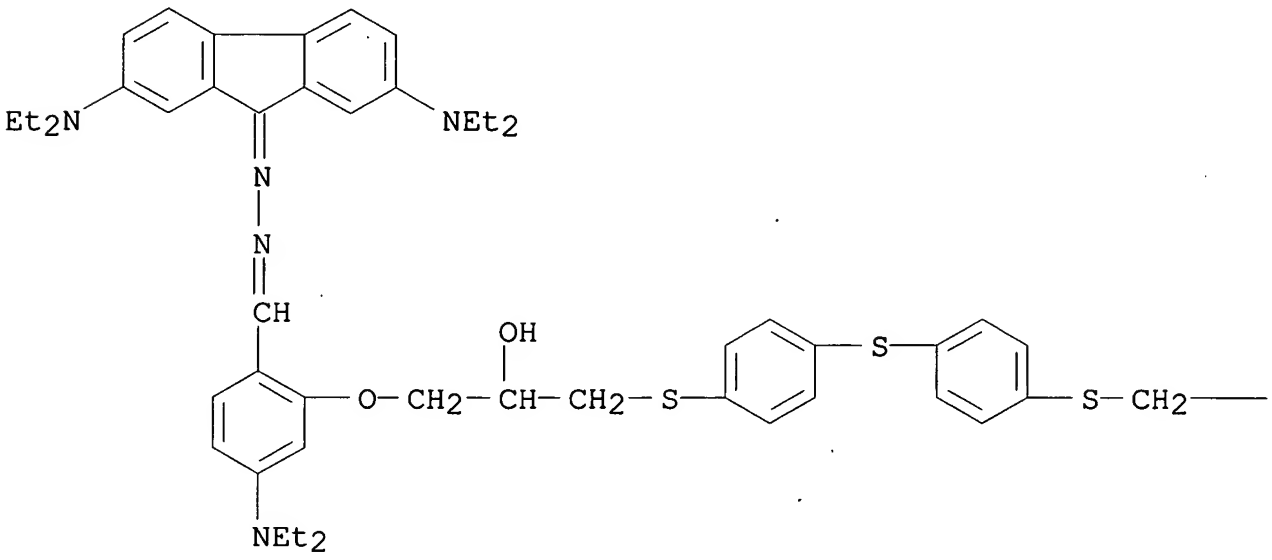
PAGE 1-A



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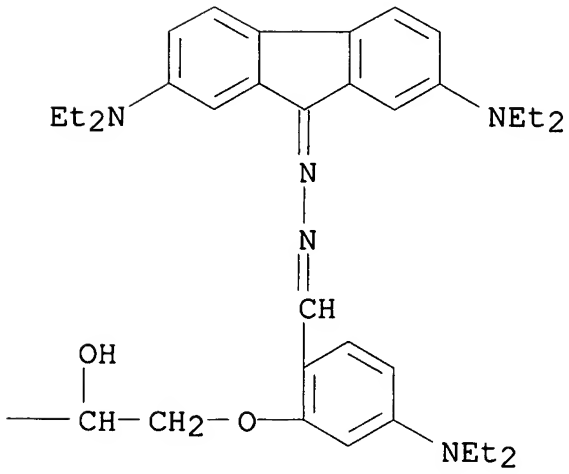

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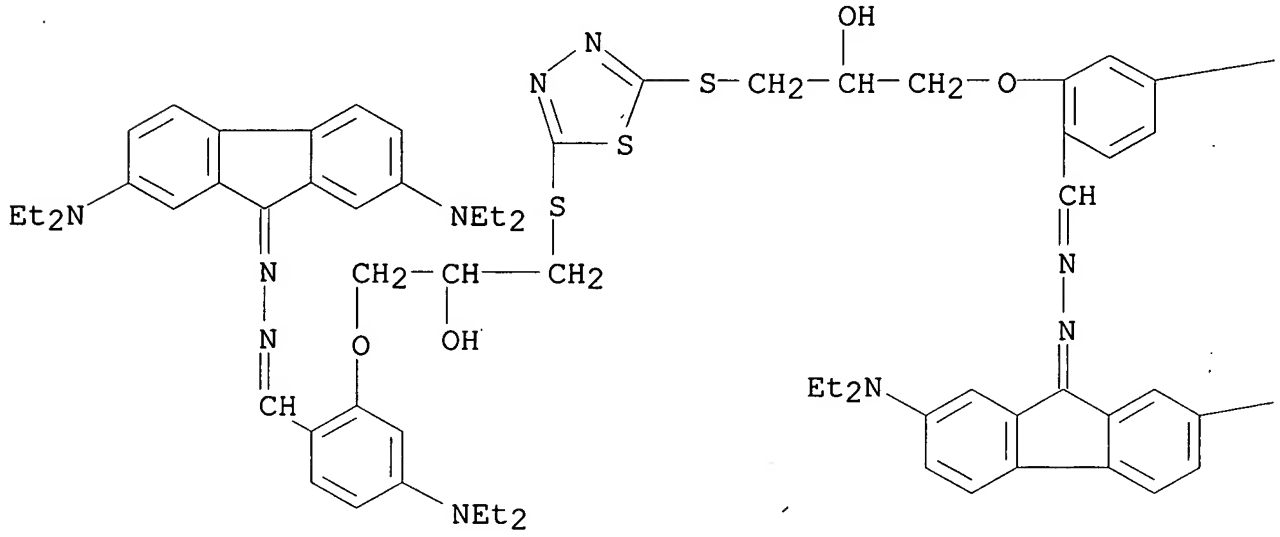
CN Benzaldehyde, 2,2'-[1,3,4-thiadiazole-2,5-diylbis[thio(2-hydroxy-3,1-propanediyl)oxy]]bis[4-(diethylamino)-, bis[[2,7-bis(diethylamino)-9H-fluoren-9-ylidene]hydrazone] (9CI) (CA INDEX NAME)

PAGE 1-A



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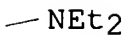

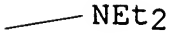

IT **816464-03-6P 816464-04-7P 816464-07-0P**
(preparation of azine-based dimeric charge transport materials for electrophotog.)

RN 816464-03-6 CAPLUS
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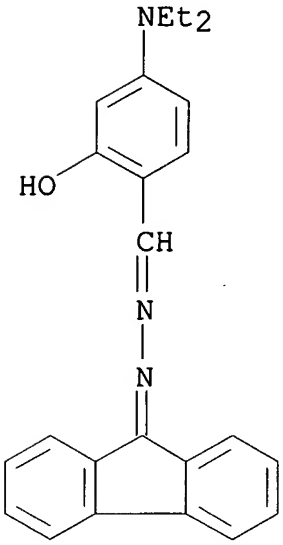

RN 816464-04-7 CAPLUS
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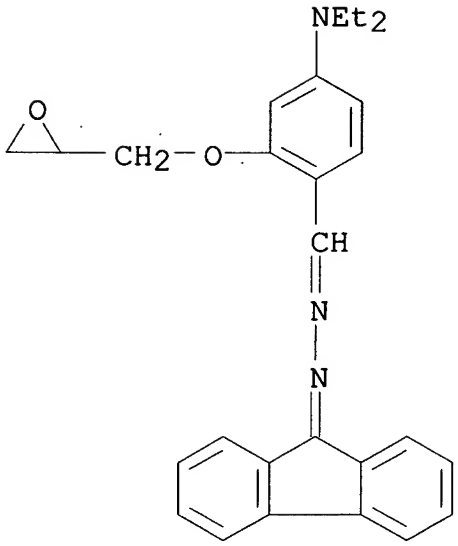

RN 816464-07-0 CAPLUS
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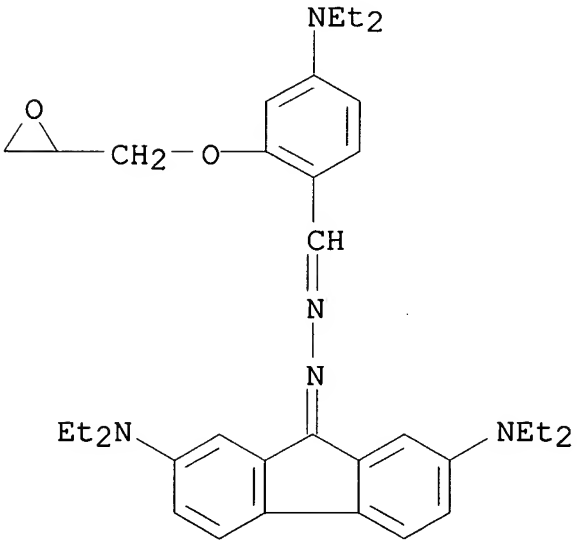
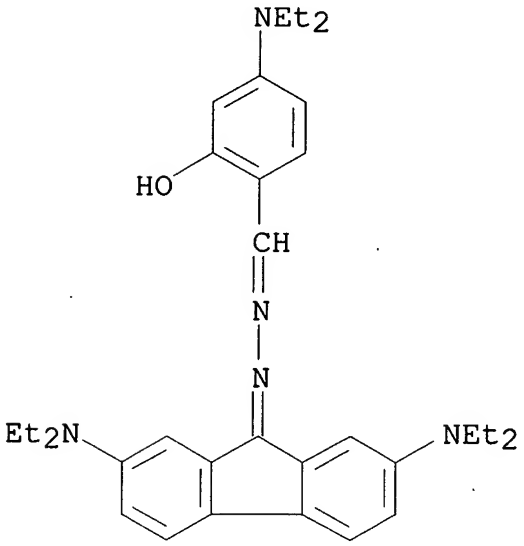


IT **816464-06-9P**
(preparation of azine-based dimeric charge transport materials for

electrophotog.)

RN 816464-06-9 CAPLUS

CN Benzaldehyde, 4-(diethylamino)-2-hydroxy-, [2,7-bis(diethylamino)-9H-fluoren-9-ylidene]hydrazone (9CI) (CA INDEX NAME)



IC ICM G03G005-06
ICS C07C251-72

NCL 430058350; 430072000; 430077000; 430074000; 430058650; 564251000

CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

IT **816463-93-1P 816463-94-2P 816463-95-3P**
816463-96-4P 816463-97-5P 816463-98-6P
816463-99-7P 816464-00-3P 816464-01-4P
816464-02-5P
(azine-based dimeric charge transport materials for electrophotog.)

IT 2915-84-6P, 2,7-Diamino-9-fluorenone 122010-64-4P 215377-16-5P
816464-03-6P 816464-04-7P 816464-05-8P
816464-07-0P 816464-08-1P
(preparation of azine-based dimeric charge transport materials for electrophotog.)

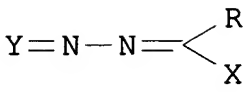
IT 13629-22-6P **816464-06-9P**
(preparation of azine-based dimeric charge transport materials for electrophotog.)

L12 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:931003 CAPLUS
DOCUMENT NUMBER: 141:403447
TITLE: Organophotoreceptors comprising azine-based charge transport compounds
INVENTOR(S): Jubran, Nusrallah; Tokarski, Zbigniew; Law, Kam W.
PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1473599	A1	20041103	EP 2004-252329	2004 0421
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 2004219446	A1	20041104	US 2004-775429	2004 0210
JP 2004334210	A2	20041125	JP 2004-136630	2004 0430
PRIORITY APPLN. INFO.:			US 2003-466813P P	2003 0430
			US 2004-775429P P	2004 0210
			US 2004-775429 A	2004 0210

OTHER SOURCE(S): MARPAT 141:403447
GI



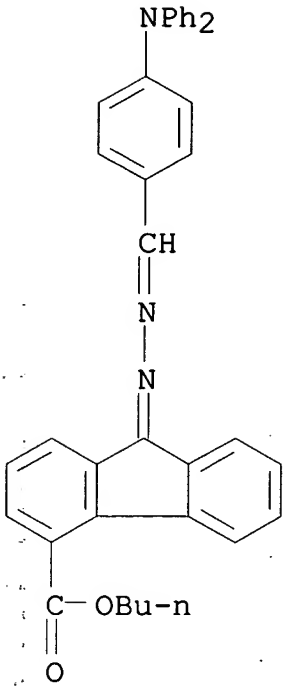
I

AB The present invention provides organophotoreceptors comprising an elec. conductive substrate and a photoconductive element on the elec. conductive substrate, the photoconductive element comprising: (a) a charge transport material having the formula I (R = H, alkyl, alkenyl, heterocyclic, aromatic; X = arylamine; Y = 9-fluorenylidene); and (b) a charge generating compound Corresponding electrophotog. apparatuses, imaging methods, and charge transport materials are also described. This invention aims to provide organophotoreceptors having good electrostatic properties such as high Vacc and low Vdis. The invention also aims to provide charge transport materials having an increased compatibility with polymeric binders and an improved solubility in organic solvents for processing.

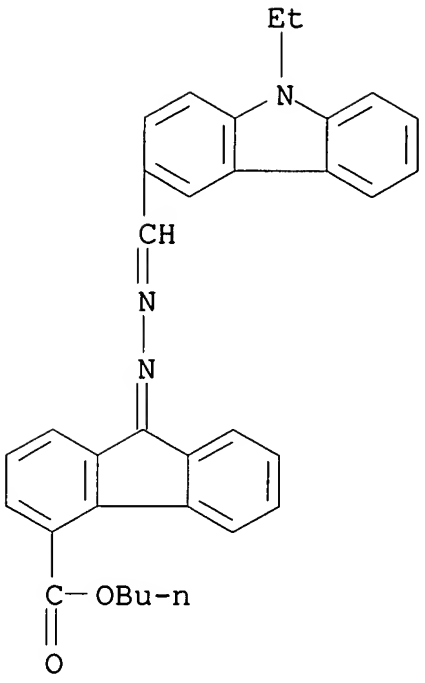
IT **787552-86-7P 787552-87-8P 787552-88-9P 787552-89-0P 787552-90-3P**
(charge-transport compound; organophotoreceptors with azine-based compds.)

RN 787552-86-7 CAPLUS

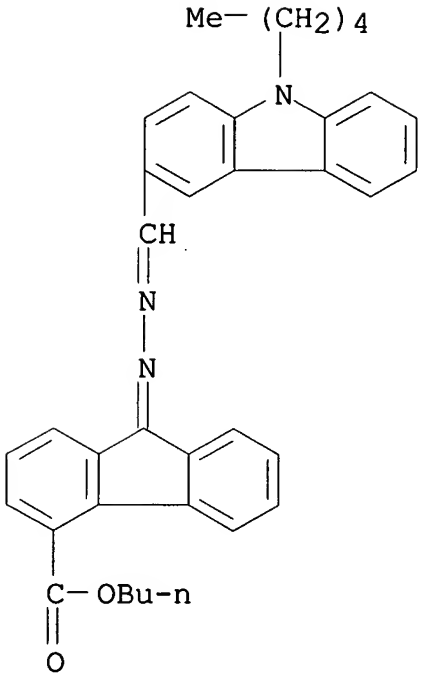
CN 9H-Fluorene-4-carboxylic acid, 9-[[[4-(diphenylamino)phenyl]methylene]hydrazono]-, butyl ester (9CI) (CA INDEX NAME)



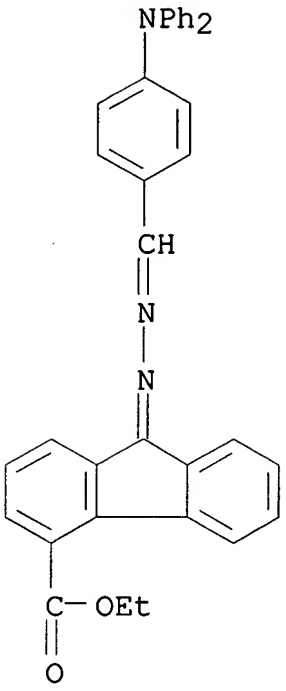
RN 787552-87-8 CAPLUS
CN 9H-Fluorene-4-carboxylic acid, 9-[[(9-ethyl-9H-carbazol-3-yl)methylene]hydrazono]-, butyl ester (9CI) (CA INDEX NAME)



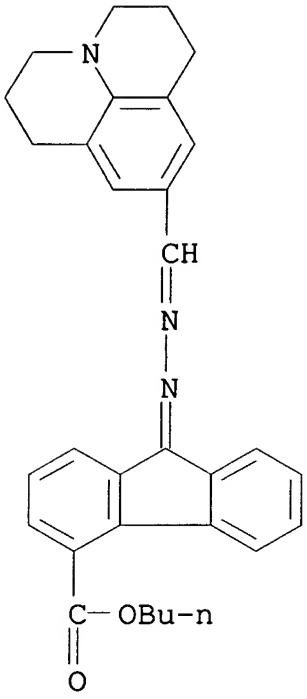
RN 787552-88-9 CAPLUS
CN 9H-Fluorene-4-carboxylic acid, 9-[[(9-pentyl-9H-carbazol-3-yl)methylene]hydrazono]-, butyl ester (9CI) (CA INDEX NAME)



RN 787552-89-0 CAPLUS
CN 9H-Fluorene-4-carboxylic acid, 9-[[[4-(diphenylamino)phenyl]methylene]hydrazono]-, ethyl ester (9CI) (CA INDEX NAME)



RN 787552-90-3 CAPLUS
CN 9H-Fluorene-4-carboxylic acid, 9-[[(2,3,6,7-tetrahydro-1H,5H-benzo[ij]quinolizin-9-yl)methylene]hydrazono]-, butyl ester (9CI) (CA INDEX NAME)



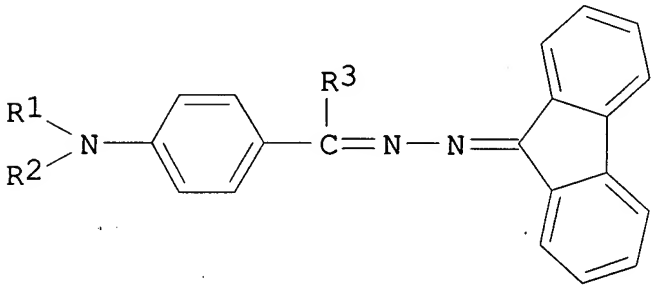
IC ICM G03G005-06
ICS C07C245-10; C07D455-04; C07D209-86
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT **787552-86-7P 787552-87-8P 787552-88-9P 787552-89-0P 787552-90-3P**
(charge-transport compound; organophotoreceptors with azine-based compds.)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:609905 CAPLUS
DOCUMENT NUMBER: 137:161377
TITLE: Electrophotographic photoconductor containing fluorenyl-azine derivatives and triarylamine in charge transport layer
INVENTOR(S): Haggquist, Gregory Walter; Levin, Ronald Harold; Luo, Weimei; Mosier, Scott Thomas
PATENT ASSIGNEE(S): Lexmark International, Inc., USA
SOURCE: U.S., 4 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6432597	B1	20020813	US 2000-732824	2000 1208
GB 2371876	A1	20020807	GB 2001-29406	2001 1207
GB 2371876	B2	20040428		
PRIORITY APPLN. INFO.:			US 2000-732824 A	2000 1208

OTHER SOURCE(S): MARPAT 137:161377
GI



I

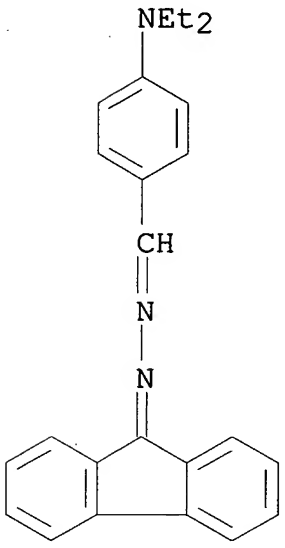
AB Azine derivs. represented by I (R1, R2 = Et, phenyl; R3 = H, phenyl) or their combinations with hindered phenol antioxidant in the charge transport layer containing one or more triarylamines or a combination of one triarylamine and one hydrazone improve light fatigue of a photoreceptor, which results in stabilized print quality. The robust performance against light damage allows the shutter in a cartridge to be removed and the requirement for special protection procedure during inspection and handling to be

simplified.

IT **87695-81-6**, 9-[p-(Diethylamino)benzylidenehydrazono]fluorene
(fluorenyl azine; electrophotog. photoconductor containing fluorenyl-azine derivs. and triarylamine in charge transport layer for reducing dark decay and improving crazing resistance)

RN 87695-81-6 CAPLUS

CN Benzaldehyde, 4-(diethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



IC ICM G03G005-047

NCL 430058450

CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

IT **87695-81-6**, 9-[p-(Diethylamino)benzylidenehydrazono]fluorene
(fluorenyl azine; electrophotog. photoconductor containing fluorenyl-azine derivs. and triarylamine in charge transport layer for reducing dark decay and improving crazing resistance)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:808568 CAPLUS

DOCUMENT NUMBER: 132:57081

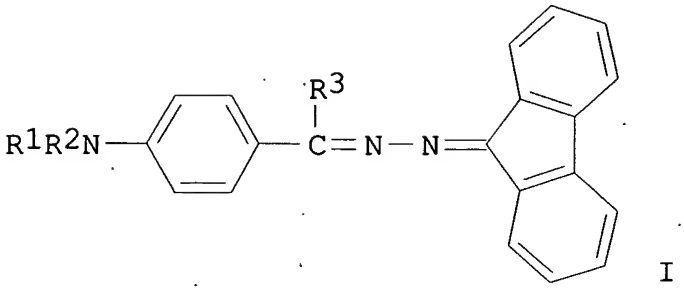
TITLE: Electrophotographic photoconductor containing fluorenyl-azine derivatives as charge transport additives
INVENTOR(S): Bellino, Mark Thomas; Champ, Robert Bruce; Luo, Weimei
PATENT ASSIGNEE(S): Lexmark International, Inc., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6004708	A	19991221	US 1999-292531	1999 0415
WO 2000063748	A1	20001026	WO 2000-US694	2000 0111
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1171805	A1	20020116	EP 2000-908255	2000 0111
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002542515	T2	20021210	JP 2000-612801	2000 0111
JP 3586742	B2	20041110		

PRIORITY APPLN. INFO.: US 1999-292531 A 1999 0415

WO 2000-US694 W
2000
0111

OTHER SOURCE(S): MARPAT 132:57081
GI



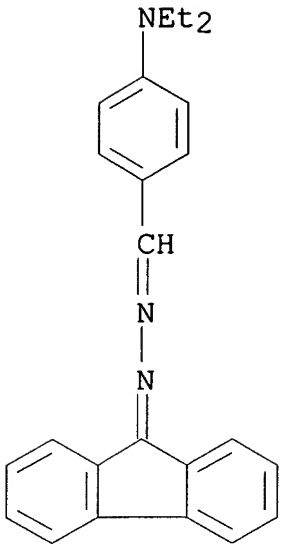
I

AB A photoconductor for use in electrophotog. reproduction devices is disclosed. This photoconductor exhibits reduced room light and cycling fatigue without any corresponding neg. impact on the sensitivity of the photoconductor. The photoconductor of the present invention includes specifically defined fluorenyl-azine derivs. in its charge transport layer. These materials have the structure (I) where R1 and R2 independently selected from C1-C4 alkyl and Ph, and R3 is selected from H, C1-C4 alkyl, and Ph.

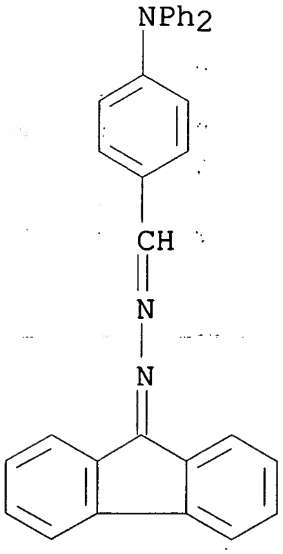
IT **87695-81-6 87695-85-0**
(electrophotog. photoconductor with charge transport layer containing fluorenyl-azine derivs. and)

RN 87695-81-6 CAPLUS

CN Benzaldehyde, 4-(diethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



RN 87695-85-0 CAPLUS
CN Benzaldehyde, 4-(diphenylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



IC ICM G03G005-047
NCL 430058450
CC 74-3 (Radiation Chemistry, **Photochemistry**, and

Photographic and Other Reprographic Processes)
IT 80-05-7, Bisphenol A, uses 24936-68-3, Makrolon 5208, uses
68189-23-1, p-(Diethylamino)benzaldehyde diphenylhydrazone
87695-81-6 87695-85-0
(electrophotog. photoconductor with charge transport layer containing fluorenyl-azine derivs. and)
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:511131 CAPLUS
DOCUMENT NUMBER: 131:157643
TITLE: Preparation of hydrazones derivatives for treatment or prevention of diseases related to glucose metabolic pathways
INVENTOR(S): Jacobsen, Palle; Madsen, Peter; Westergaard, Niels
PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9940062	A1	19990812	WO 1999-DK53	19990203
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9926102	A1	19990823	AU 1999-26102	19990203

PRIORITY APPLN. INFO.: DK 1998-159 A

1998
0205

US 1998-74001P P
1998
0209

WO 1999-DK53 W
1999
0203

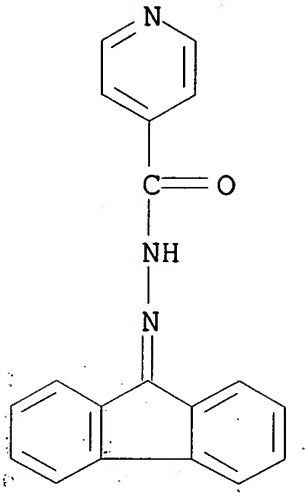
OTHER SOURCE(S): MARPAT 131:157643

AB Hydrazone derivs. of formula R1R2C=NNR3R4 (I) or R1R2C=NN=CR3R4 (II) [R1-R4 = H, C1-8 alkyl, C3-8 cycloalkyl, OH, acyl, C1-6 alkoxy, NO2, cyano, (un)substituted carbonyl, (un)substituted amino, (un)substituted sulfonamide, (un)substituted (hetero)aryl, etc.; R1 and R2 or R3 and R4 may together form an (un)subtituted hetero- or carbocycle], were prepd for use as medicaments in therapy especially in the treatment of diseases related to glucose metabolic pathways. Specifically, claimed compds. I and II were prepared for use in the treatment or prevention of diseases of the endocrinol. system, preferably hyperglycemia, NIDDM, or diabetes, and for treatment of glycogen storage disease or hypoglycemia. Compns. of the invention are claimed to exhibit glucose-6-phosphatase inhibitory activity with IC50 values of less than 100 μM (no data). Thus, 4-chlorobenzaldehyde was added to N,N-dibenzylhydrazine in DMF followed by addition of tri-Et orthoformate to form N,N-dibenzyl-N'-(4-chlorobenzylidene)hydrazine, i.e., I (where R1 = H, R2 = C6H4-p-Cl, and R3 = R4 = CH2Ph), in 94% yield.

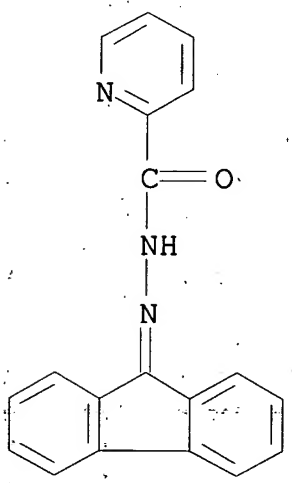
IT **237403-47-3P**, Isonicotinic acid fluoren-9-ylidenehydrazide **237403-48-4P**, Pyridine-2-carboxylic acid fluoren-9-ylidenehydrazide **237403-52-0P**, N-Fluoren-9-ylidene-N'-(1H-indol-3-ylmethylene)hydrazine (preparation of hydrazone derivs. for treatment or prevention of diseases of the endocrinol. system, preferably hyperglycemia, NIDDM, or diabetes, and for treatment of glycogen storage disease or hypoglycemia)

RN 237403-47-3 CAPLUS

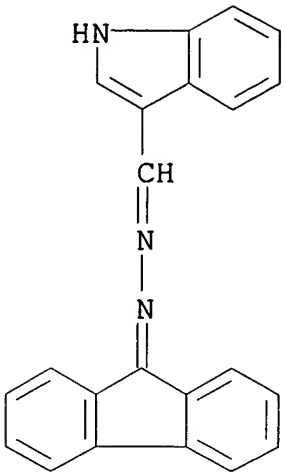
CN 4-Pyridinecarboxylic acid, 9H-fluoren-9-ylidenehydrazide (9CI) (CA INDEX NAME)



RN 237403-48-4 CAPLUS
CN 2-Pyridinecarboxylic acid, 9H-fluoren-9-ylidenehydrazide (9CI) (CA INDEX NAME)



RN 237403-52-0 CAPLUS
CN 1H-Indole-3-carboxaldehyde, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



IC ICM C07C251-86
ICS C07C251-82; C07C251-88; C07D213-44; C07D307-52; C07D333-22; A61K031-15; A61K031-34; A61K031-38; A61K031-435

CC 25-5 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 1

IT 966-88-1P, N'-Benzylidene-N,N-diphenylhydrazine 2675-35-6P, 4,4'-Dihydroxybenzophenone 2,4-dinitrophenylhydrazone 2989-45-9P, N'-Benzylidene-N-methyl-N-phenylhydrazine 7627-02-3P, [4-(Dibenzylhydrazonomethyl)phenyl]dimethylamine 21136-32-3P, N,N-Dibenzyl-N'-benzylidenehydrazine 21771-95-9P, N-Benzyl-N'-phenethylidene-N-phenylhydrazine 23718-81-2P, N'-(4-Methoxybenzylidene)-N,N-diphenylhydrazine 23718-88-9P, N'-Furan-2-ylmethylene-N,N-diphenylhydrazine 28150-00-7P, N-Benzhydrylidene-N'-(1-phenylpropylidene)hydrazine 28614-89-3P, N'-Phenethylidene-N,N-diphenylhydrazine 28856-29-3P, N,N-Diphenyl-N'-(1-phenylpropylidene)hydrazine 28925-62-4P, N,N-Dibenzyl-N'-(4-chlorobenzylidene)hydrazine 31400-19-8P, N-Benzhydrylidene-N'-(4-methoxybenzylidene)hydrazine 59670-26-7P, N'-(4-Methoxybenzylidene)-N-methyl-N-phenylhydrazine 61777-31-9P, 1-[(Furan-2-ylmethylene)amino]-4,6-diphenyl-1H-pyridin-2-one 62084-77-9P, N-Benzyl-N'-(4-nitrobenzylidene)-N-phenylhydrazine 66832-50-6P, N'-(3,4-Dihydro-2H-naphthalen-1-ylidene)-N,N-diphenylhydrazine 67134-48-9P, N-Methyl-N'-phenethylidene-N-phenylhydrazine 67458-47-3P, N'-(4-Chloro-2H-phthalazin-1-ylidene)-N,N-diphenylhydrazine 73861-04-8P, 3-[(4-Methoxybenzylidene)amino]-2-phenyl-3H-quinazolin-4-one 76604-05-2P, 2-(Carbazol-9-yliminomethyl)phenol 79492-38-9P, (3,4-Dihydro-1H-isoquinolin-2-yl)(4-methoxy-

benzylidene)amine 80165-58-8P, N-Benzyl-N'-(4-methoxybenzylidene)-N-phenylhydrazine 85303-10-2P, N'-[1-(4-Methoxyphenyl)propylidene]-N-methyl-N-phenylhydrazine 95060-18-7P, 3-(Diphenylhydrazono)-1,3-dihydroindol-2-one 106032-41-1P, N-Methyl-N-phenyl-N'-(1-phenylpropylidene)hydrazine 106873-08-9P, 3-[(4-Dimethylaminobenzylidene)amino]-2-phenyl-3H-quinazolin-4-one 117138-69-9P, N'-(3,4-Dihydro-2H-naphthalen-1-ylidene)-N-methyl-N-phenylhydrazine 121597-23-7P, 2-(3-Phenylpropylideneamino)isoindole-1,3-dione 139546-58-0P, N,N-Diphenyl-N'-(3-phenylpropylidene)hydrazine 202804-41-9P, 3-(Diphenylhydrazono)-1-methyl-1,3-dihydroindol-2-one 213965-69-6P, N-Benzyl-N'-(4-chlorobenzylidene)-N-phenylhydrazine 217200-19-6P, N-Methyl-N'-(1-methyl-3-phenylpropylidene)-N-phenylhydrazine 237402-26-5P, N,N-Dibenzyl-N'-(5-ethyl-2-furylmethylidene)hydrazine 237402-27-6P, N,N-Dibenzyl-N'-(pyridin-4-ylmethylene)hydrazine 237402-28-7P, N,N-Dibenzyl-N'-(4-methoxybenzylidene)hydrazine 237402-29-8P, N,N-Dibenzyl-N'-(pyridin-2-ylmethylene)hydrazine 237402-30-1P, N,N-Dibenzyl-N'-(1H-imidazol-2-ylmethylene)hydrazine 237402-31-2P, N,N-Dibenzyl-N'-(5-nitrofuran-2-ylmethylene)hydrazine 237402-32-3P, N-[4-(Dibenzylhydrazonomethyl)phenyl]acetamide 237402-33-4P, N,N-Dibenzyl-N'-(3,5-dichlorobenzylidene)hydrazine 237402-34-5P, N,N-Dibenzyl-N'-(3,4-dichlorobenzylidene)hydrazine 237402-35-6P, 4-(Dibenzylhydrazonomethyl)benzoic acid methyl ester 237402-36-7P, 4-(Dibenzylhydrazonomethyl)-2-methoxyphenol 237402-37-8P, N,N-Dibenzyl-N'-thiophen-2-ylmethylenehydrazine 237402-38-9P, 4-(Dibenzylhydrazonomethyl)benzoic acid 237402-39-0P, N,N-Dibenzyl-N'-(1-phenylethylidene)hydrazine 237402-40-3P, N,N-Dibenzyl-N'-(3,4-dihydro-1H-naphthalen-2-ylidene)hydrazine 237402-41-4P, N'-(3,4-Dihydro-1H-naphthalen-2-ylidene)-N, N-diphenylhydrazine 237402-42-5P, N-Benzyl-N'-(3,4-dihydro-1H-naphthalen-2-ylidene)-N-phenylhydrazine 237402-43-6P, N'-(1-Methyl-3-phenylpropylidene)-N,N-diphenylhydrazine 237402-44-7P, N-Benzyl-N'-(1-methyl-3-phenylpropylidene)-N-phenylhydrazine 237402-45-8P, N,N-Dibenzyl-N'-(3-phenylpropylidene)hydrazine 237402-46-9P, N-Benzyl-N-phenyl-N'-(3-phenylpropylidene)hydrazine 237402-47-0P, N,N-Dibenzyl-N'-[2-(4-methoxyphenyl)-1-methylethylidene]hydrazine 237402-48-1P, N'-[2-(4-Methoxyphenyl)-1-methylethylidene]-N,N-diphenylhydrazine 237402-49-2P, N-Benzyl-N'-[2-(4-methoxyphenyl)-1-methylethylidene]-N-phenylhydrazine 237402-50-5P, N,N-Dibenzyl-N'-[2-(3,4-dimethoxyphenyl)-1-methylethylidene]hydrazine 237402-51-6P, N'-[2-(3,4-Dimethoxyphenyl)-1-methylethylidene]-N,N-

diphenylhydrazine 237402-52-7P, N-Benzyl-N'-[2-(3,4-dimethoxyphenyl)-1-methylethylidene]-N-phenylhydrazine 237402-53-8P, N,N-Dibenzyl-N'-phenethylidenehydrazine 237402-54-9P, N,N-Dibenzyl-N'-[1-(4-methoxyphenyl)propylidene]hydrazine 237402-55-0P 237402-56-1P, N-Benzyl-N'-[1-(4-methoxyphenyl)propylidene]-N-phenylhydrazine 237402-57-2P, N,N-Dibenzyl-N'-(3,4-dihydro-2H-naphthalen-1-ylidene)hydrazine 237402-58-3P 237402-59-4P, N,N-Dibenzyl-N'-(6-methoxy-3,4-dihydro-2H-naphthalen-1-ylidene)hydrazine 237402-60-7P 237402-61-8P, N-Benzyl-N'-(6-methoxy-3,4-dihydro-2H-naphthalen-1-ylidene)-N-phenylhydrazine 237402-62-9P, N,N-Dibenzyl-N'-(1-phenylpropylidene)hydrazine 237402-63-0P 237402-64-1P, 4-[1-(Dibenzylhydrazono)propyl]phenol 237402-65-2P, 4-[1-(Benzylphenylhydrazono)propyl]phenol 237402-66-3P, N,N-Dibenzyl-N'-[1-(4-chlorophenyl)propylidene]hydrazine 237402-67-4P 237402-68-5P, N-Benzyl-N'-[1-(4-chlorophenyl)propylidene]-N-phenylhydrazine 237402-69-6P 237402-70-9P, 2-[(3,4-Dihydro-1H-naphthalen-2-ylidene)hydrazono]-1,2-diphenylethanone 237402-71-0P, N-Methyl-N-phenyl-N'-(3-phenylpropylidene)hydrazine 237402-72-1P, 1,2-Diphenyl-2-[(3-phenylpropylidene)hydrazono]ethanone 237402-73-2P, N'-[2-(3,4-Dimethoxyphenyl)-1-methylethylidene]-N-methyl-N-phenylhydrazine 237402-74-3P, 2-[[2-(3,4-Dimethoxyphenyl)-1-methylethylidene]hydrazono]-1,2-diphenylethanone 237402-75-4P, 2-(Phenethylidenehydrazono)-1,2-diphenylethanone 237402-76-5P 237402-77-6P, N'-(6-Methoxy-3,4-dihydro-2H-naphthalen-1-ylidene)-N-methyl-N-phenylhydrazine 237402-78-7P, 2-[(6-Methoxy-3,4-dihydro-2H-naphthalen-1-ylidene)hydrazono]-1,2-diphenylethanone 237402-79-8P, 1,2-Diphenyl-2-[(1-phenylpropylidene)hydrazono]ethanone 237402-80-1P, 4-[1-(Methylphenylhydrazono)propyl]phenol 237402-81-2P, 2-[[1-(4-Hydroxyphenyl)propylidene]hydrazono]-1,2-diphenylethanone 237402-82-3P 237402-83-4P, 2-[[1-(4-Methoxyphenyl)propylidene]hydrazono]-1,2-diphenylethanone 237402-84-5P, N-Benzhydrylidene-N'-(1-methyl-3-phenylpropylidene)hydrazine 237402-85-6P, 2-(3,4-Dihydro-1H-naphthalen-2-ylideneamino)isoindole-1,3-dione 237402-86-7P, N-Benzhydrylidene-N'-(3,4-dihydro-1H-naphthalen-2-ylidene)hydrazine 237402-87-8P, 2-(1-Methyl-3-phenylpropylideneamino)isoindole-1,3-dione 237402-88-9P, N-Benzhydrylidene-N'-(3-phenylpropylidene)hydrazine 237402-89-0P, N-(7-Chloroquinolin-4-yl)-N'-(3-phenylpropylidene)hydrazine 237402-90-3P, N-Benzhydrylidene-N'-[2-(4-methoxyphenyl)-1-methylethylidene]hydrazine 237402-91-4P 237402-92-5P, N-Benzhydrylidene-N'-[2-(3,4-dimethoxyphenyl)-1-methylethylidene]hydrazine 237402-93-6P, 2-

(Phenethylideneamino)isoindole-1,3-dione 237402-94-7P, N-Benzhydrylidene-N'-phenethylidenehydrazine 237402-95-8P, N-(7-Chloroquinolin-4-yl)-N'-phenethylidenehydrazine 237402-96-9P, 2-(3,4-Dihydro-2H-naphthalen-1-ylideneamino)isoindole-1,3-dione 237402-97-0P, N-Benzhydrylidene-N'-(3,4-dihydro-2H-naphthalen-1-ylidene)hydrazine 237402-98-1P, N-(7-Chloroquinolin-4-yl)-N'-(3,4-dihydro-2H-naphthalen-1-ylidene)hydrazine 237402-99-2P, N-Benzhydrylidene-N'-(6-methoxy-3,4-dihydro-2H-naphthalen-1-ylidene)hydrazine 237403-00-8P 237403-01-9P, N-(7-Chloroquinolin-4-yl)-N'-(1-phenylpropylidene)hydrazine 237403-02-0P, 4-[1-[(7-Chloroquinolin-4-yl)hydrazono]propyl]phenol 237403-03-1P, N-[1-(4-Chlorophenyl)propylidene]-N'-(7-chloroquinolin-4-yl)hydrazine 237403-04-2P, N-(7-Chloroquinolin-4-yl)-N'-[1'-(4-methoxyphenyl)propylidene]hydrazine 237403-05-3P, 4-[5-(4-Chlorophenyl)-4-[(furan-2-ylmethylene)amino]-4H-[1,2,4]triazol-3-ylsulfanylmethyl]benzoic acid methyl ester 237403-06-4P, 4-[5-(4-Chlorophenyl)-4-[(4-methoxybenzylidene)amino]-4H-[1,2,4]triazol-3-ylsulfanylmethyl]benzoic acid methyl ester 237403-07-5P, 4-[5-(4-Chlorophenyl)-4-[(4-trifluoromethoxybenzylidene)amino]-4H-[1,2,4]triazol-3-ylsulfanylmethyl]benzoic acid methyl ester 237403-08-6P, [3-Benzylsulfanyl-5-(4-methoxyphenyl)[1,2,4]triazol-4-yl]furan-2-ylmethyleneamine 237403-09-7P 237403-10-0P, 9H-Xanthene-9-carboxylic acid furan-2-ylmethylenehydrazide 237403-11-1P, 9H-Xanthene-9-carboxylic acid (4-hydroxybenzylidene)hydrazide 237403-12-2P, 9H-Xanthene-9-carboxylic acid (4-trifluoromethoxybenzylidene)hydrazide 237403-13-3P, [3,5-Di(pyridin-2-yl)[1,2,4]triazol-4-yl](4-trifluoromethoxybenzylidene)amine 237403-14-4P, N-Acridin-9-yl-N'-furan-2-ylmethylenehydrazine 237403-15-5P, N-Acridin-9-yl-N'-(4-methoxybenzylidene)hydrazine 237403-16-6P, N-Acridin-9-yl-N'-(4-trifluoromethoxybenzylidene)hydrazine 237403-17-7P, (3,4-Dihydro-1H-isoquinolin-2-yl)furan-2-ylmethyleneamine 237403-18-8P, (3,4-Dihydro-1H-isoquinolin-2-yl)(4-trifluoromethoxybenzylidene)amine 237403-19-9P, N-Benzhydrylidene-N'-furan-2-ylmethylenehydrazine 237403-20-2P, N'-Furan-3-ylmethylene-N,N-diphenylhydrazine 237403-21-3P, N'-Furan-3-ylmethylene-N-methyl-N-phenylhydrazine 237403-22-4P 237403-23-5P, N-Benzhydrylidene-N'-(4-chlorobenzylidene)hydrazine 237403-24-6P, N-Benzyl-N-phenyl-N'-(4-trifluoromethoxybenzylidene)hydrazine 237403-25-7P, N-Benzhydrylidene-N'-(4-trifluoromethoxybenzylidene)hydrazine 237403-26-8P, N,N-Bis-(4-methoxybenzyl)-N'-pyridin-3-ylmethylenehydrazine 237403-27-9P, N'-Furan-3-ylmethylene-N,N-

bis-(4-methoxybenzyl)hydrazine 237403-28-0P, N-Benzyl-N'-furan-2-ylmethylene-N-(4-trifluoromethylbenzyl)hydrazine 237403-29-1P, 4-[Benzyl(4-trifluoromethylbenzyl)hydrazonomethyl]phenol 237403-30-4P, N-Benzyl-N'-pyridin-3-ylmethylene-N-(4-trifluoromethylbenzyl)hydrazine 237403-31-5P, N'-(5-Ethylfuran-2-ylmethylene)-N,N-bis-(4-methoxybenzyl)hydrazine 237403-32-6P, N'-Furan-2-ylmethylene-N,N-bis-(4-methoxybenzyl)hydrazine 237403-33-7P, N'-(1H-Imidazol-4-ylmethylene)-N,N-bis-(4-methoxybenzyl)hydrazine 237403-34-8P, N'-Benzylidene-N,N-bis(4-methoxybenzyl)hydrazine 237403-35-9P, N-Benzyl-N'-benzylidene-N-(4-trifluoromethylbenzyl)hydrazine 237403-36-0P, N-Benzyl-N'-(5-ethylfuran-2-ylmethylene)-N-(4-trifluoromethylbenzyl)hydrazine 237403-37-1P, N-Benzyl-N'-(1H-imidazol-4-ylmethylene)-N-(4-trifluoromethylbenzyl)hydrazine 237403-38-2P, N-Benzyl-N'-furan-3-ylmethylene-N-(4-trifluoromethylbenzyl)hydrazine 237403-39-3P, N-(4-Dimethylaminophenyl)-3-(phenylacetylhydrazono)butyramide 237403-40-6P, 3-[(Furan-3-ylmethylene)amino]-2-phenyl-3H-quinazolin-4-one 237403-41-7P, 2-(4-Bromophenyl)-3-[(3,4-dihydroxybenzylidene)amino]-3H-quinazolin-4-one 237403-42-8P 237403-43-9P, 2,4-Dichloro-6-[methyl(2-nitro-4-trifluoromethylphenyl)hydrazonomethyl]phenol 237403-44-0P, 4-Fluorobenzoic acid (10H-anthracen-9-ylidene)hydrazide 237403-45-1P, 2-[(4-Bromobenzylidene)amino]benzo[de]isoquinoline-1,3-dione 237403-46-2P, 4-(Diphenylhydrazonomethyl)-5-methyl-2-phenyl-2H-pyrazol-3-ol **237403-47-3P**, Isonicotinic acid fluoren-9-ylidenehydrazide **237403-48-4P**, Pyridine-2-carboxylic acid fluoren-9-ylidenehydrazide 237403-49-5P 237403-50-8P, Hydroxydiphenylacetic acid [1-(4-tert-butylphenyl)ethylidene]hydrazide 237403-51-9P, [5-(Dibenzylhydrazonomethyl)furan-2-yl]methanol **237403-52-0P**, N-Fluoren-9-ylidene-N'-(1H-indol-3-ylmethylene)hydrazine 237403-53-1P, 2-(Fluoren-9-ylidenehydrazonomethyl)phenol 237403-54-2P, [4-(Fluoren-9-ylidenehydrazonomethyl)phenoxy]acetic acid 237403-55-3P, N-Fluoren-9-ylidene-N'-furan-2-ylmethylenehydrazine 237403-56-4P, N-Fluoren-9-ylidene-N'-[2-(1,3,3-trimethyl-1,3-dihydro-indol-2-ylidene)ethylidene]hydrazine 237403-57-5P, N,N-Dibenzyl-N'-furan-2-ylmethylenehydrazine 237403-58-6P, N,N-Dibenzyl-N'-(4-hydroxybenzylidene)hydrazine

(preparation of hydrazone derivs. for treatment or prevention of diseases of the endocrinol. system, preferably hyperglycemia, NIDDM, or diabetes, and for treatment of glycogen storage disease or hypoglycemia)

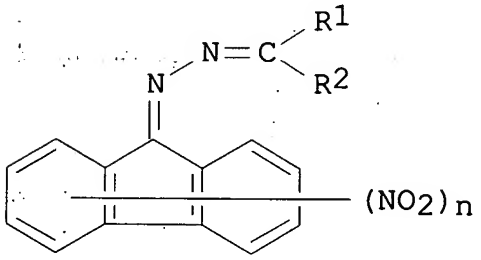
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:735461 CAPLUS
DOCUMENT NUMBER: 130:45250
TITLE: Electrophotographic photoreceptor with improved durability
INVENTOR(S): Kawahara, Tatsuo
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10301306	A2	19981113	JP 1997-108924	1997 0425

PRIORITY APPLN. INFO.: JP 1997-108924 1997 0425

OTHER SOURCE(S): MARPAT 130:45250
GI

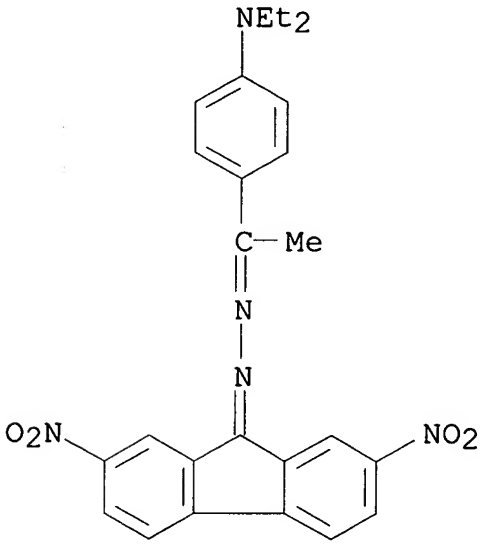


I

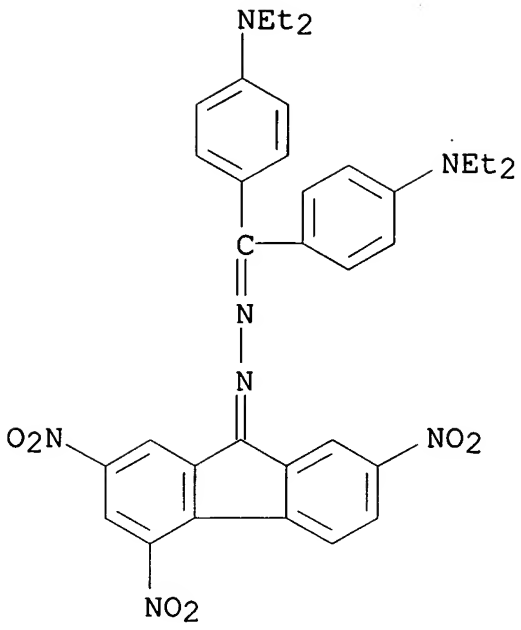
AB The title photoreceptor comprises an elec. conductive support coated with a photosensitive layer containing a

methylidenehydrazonofluorene derivative I [R1, R2 = alkyl, aryl, aralkyl, heterocycle (these groups may be substituted), R1 and R2 may form a ring; n = 1-4] as an electron-transporting agent. The photoreceptor, adaptable to both pos. and neg. charging processes, shows improved charge retention, high photosensitivity, and low residual potential.

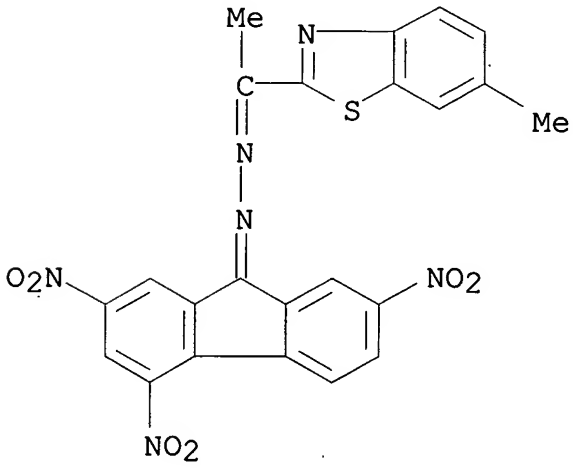
IT **216752-05-5P**
(electrophotog. photoconductor using methylidenehydrazonofluorene as electron-transporting agent)
RN 216752-05-5 CAPLUS
CN 9H-Fluoren-9-one, 2,7-dinitro-, [1-[4-(diethylamino)phenyl]ethylidene]hydrazone (9CI) (CA INDEX NAME)



IT **216752-07-7 216752-08-8**
(electrophotog. photoconductor using methylidenehydrazonofluorene as electron-transporting agent)
RN 216752-07-7 CAPLUS
CN 9H-Fluoren-9-one, 2,4,7-trinitro-, [bis[4-(diethylamino)phenyl]methylene]hydrazone (9CI) (CA INDEX NAME)



RN 216752-08-8 CAPLUS
CN 9H-Fluoren-9-one, 2,4,7-trinitro-, [1-(6-methyl-2-benzothiazolyl)ethylidene]hydrazone (9CI) (CA INDEX NAME)

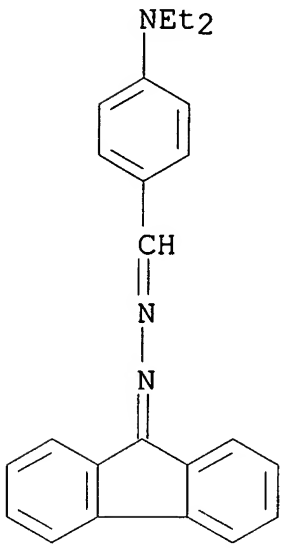


IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

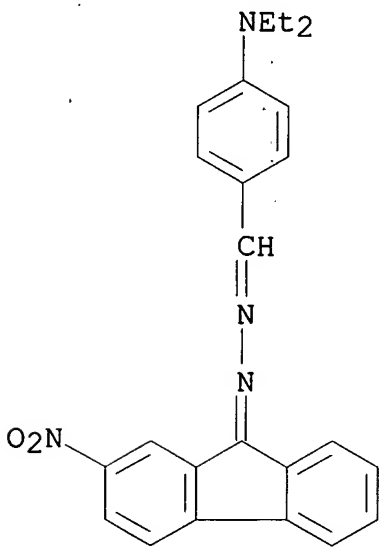
IT **216752-05-5P**
(electrophotog. photoconductor using methylidenehydrazonofluorene as electron-transporting agent)
IT 216752-06-6 **216752-07-7 216752-08-8**
216752-09-9
(electrophotog. photoconductor using methylidenehydrazonofluorene as electron-transporting agent)

L12 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:1357 CAPLUS
DOCUMENT NUMBER: 126:143879
TITLE: Characterization of 9-(p-substituted benzylidenehydrazono)fluorenes
AUTHOR(S): Minabe, Masahiro; Takabayashi, Yutaka; Setta, Yuji; Nakamura, Hidenao; Kimura, Takao; Tsubota, Motohiro
CORPORATE SOURCE: Faculty of Engineering, Utsunomiya University, Utsunomiya, 321, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1996), 69(12), 3633-3638
CODEN: BCSJA8; ISSN: 0009-2673
PUBLISHER: Nippon Kagakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The title azine was obtained by a reaction of the corresponding fluorenone hydrazone and p-substituted benzaldehyde. The hydrazone formed from the unsym. fluorenone afforded configurational isomers; the E-isomer was thermodynamically more stable than the Z-isomer. The structure of the title azines, derived from sym. fluorenone, was assigned to be (s-trans/E) form. The azines from unsym. fluorenone gave isomeric mixts. due to the 9-iminofluorene moiety. The electronic spectra of these azines show an intramol. charge transfer; the red shift beyond 250 nm is observed in the case of 9-[p-(diethylamino)benzylidenehydrazono]-2,4,7-trinitrofluorene, compared to the 250 nm is observed in the case of 9-[p-(diethylamino)benzylidenehydrazono]-2,4,7-trinitrofluorene, compared to the mother azine. 9-[P-(Pentyloxy)benzylidenehydrazono]-2,7-dinitrofluorene and some of the homologs possess a liq.crystalline property; the phase-transition temperature of the dinitro compound is K (172°) M1 (185) M2 (187) I between the crystalline and liquid phases.
IT **87695-81-6P 186553-61-7P 186553-62-8P 186553-63-9P**
(characterization of 9-(p-substituted benzylidenehydrazono)fluorenes)

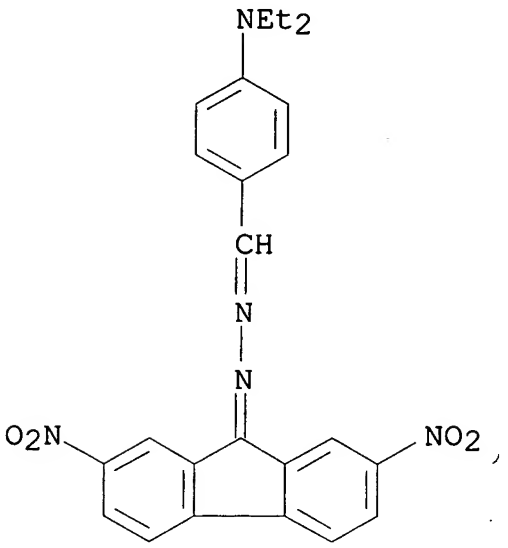
RN 87695-81-6 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



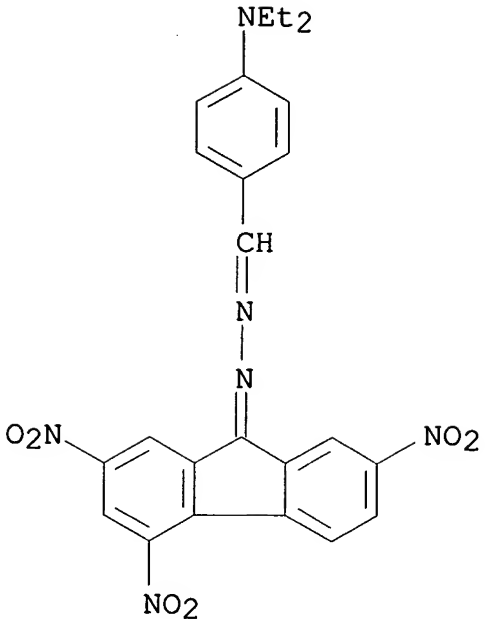
RN 186553-61-7 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, (2-nitro-9H-fluoren-9-ylidene)hydrazone (9CI) (CA INDEX NAME)



RN 186553-62-8 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, (2,7-dinitro-9H-fluoren-9-ylidene)hydrazone (9CI) (CA INDEX NAME)



RN 186553-63-9 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, (2,4,7-trinitro-9H-fluoren-9-ylidene)hydrazone (9CI) (CA INDEX NAME)



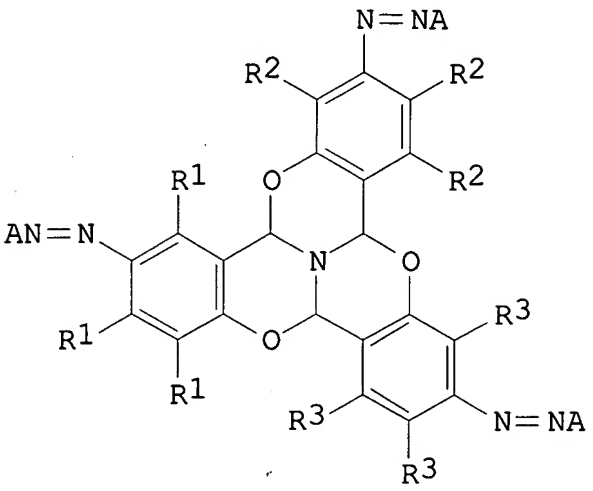
CC 22-13 (Physical Organic Chemistry)
Section cross-reference(s): 75
IT 52211-82-2P **87695-81-6P** 186553-48-0P 186553-52-6P
186553-59-3P 186553-60-6P **186553-61-7P**
186553-62-8P 186553-63-9P
(characterization of 9-(p-substituted benzylidenehydrazono)fluorenes)
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:523772 CAPLUS
DOCUMENT NUMBER: 113:123772
TITLE: Electrophotographic photoconductor containing trisazo pigment
INVENTOR(S): Kashizaki, Yoshiro; Anayama, Hideki
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01100559	A2	19890418	JP 1987-257376	19871014

PRIORITY APPLN. INFO.: JP 1987-257376 19871014

GI



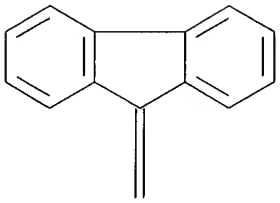
AB An electrophotog. photoconductor has a photosensitive layer containing a charge-generating trisazo pigment of the formula I (R1-R3 = H, alkyl, halo; A = coupler residue having phenolic OH).

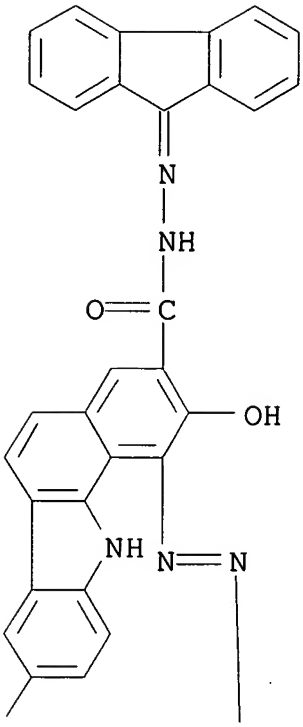
IT **129284-37-3**
(electrophotog. charge-generating agent)

RN 129284-37-3 CAPLUS

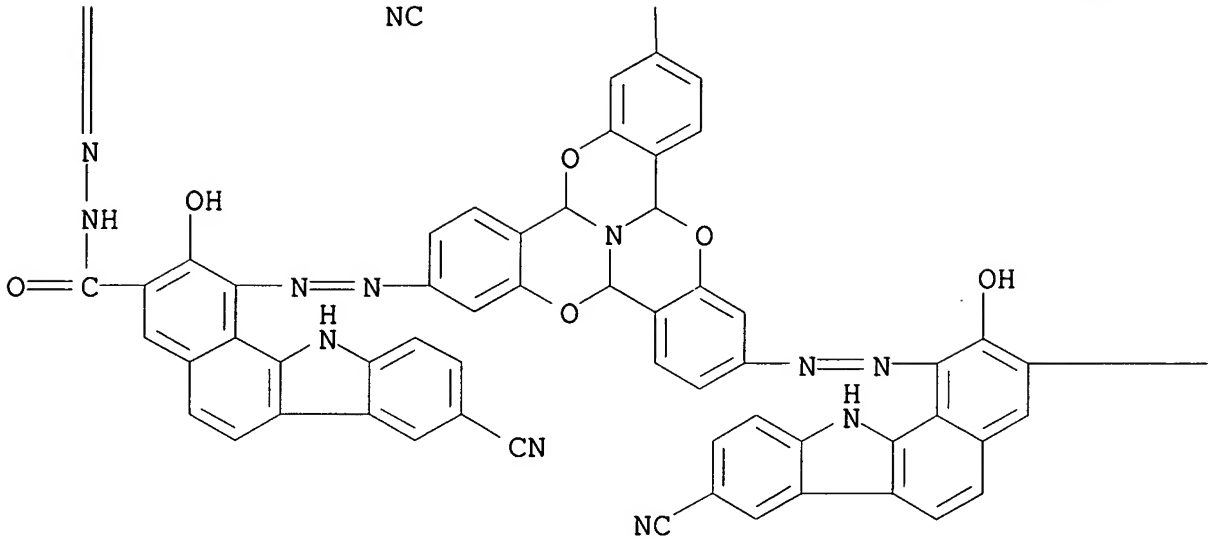
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1',1''-[5aH,10aH,15aH-5,10,15-trioxa-14c-azabenzo[a]naphth[1,2,3-de]anthracene-3,8,13-triyltris(azo)]tris[8-cyano-2-hydroxy-, tris(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A

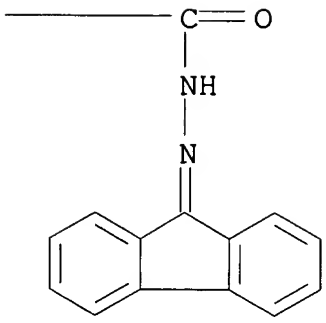




PAGE 2-A



PAGE 2-B



IC ICM G03G005-06
ICS C09B035-378
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
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126619-75-8 126619-76-9 126619-77-0 126619-78-1
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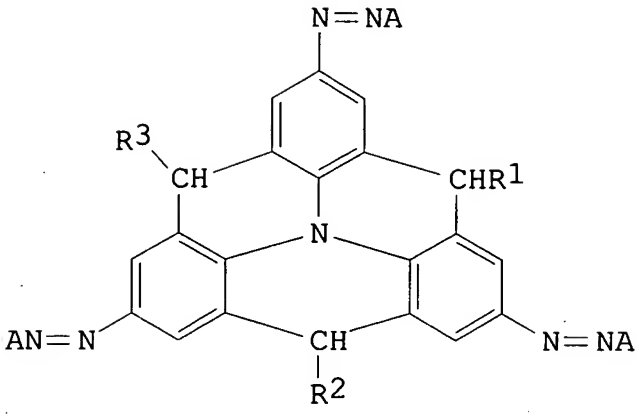
126619-91-8 126619-92-9 126619-93-0 126619-94-1
126619-95-2 126619-96-3 126619-97-4 126619-98-5
126619-99-6 126620-00-6 126620-01-7 126620-02-8
126620-03-9 126620-04-0 126620-05-1 126620-06-2
126620-07-3 126620-08-4 126620-09-5 126620-10-8
126644-35-7 129284-36-2 **129284-37-3** 129284-38-4
129284-39-5 129284-40-8 129284-41-9 129284-42-0
129333-30-8
(electrophotog. charge-generating agent)

L12 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:88195 CAPLUS
DOCUMENT NUMBER: 112:88195
TITLE: Electrophotographic photoreceptor
INVENTOR(S): Miyazaki, Hajime; Anayama, Hideki
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01076061	A2	19890322	JP 1987-232094	1987 0918

PRIORITY APPLN. INFO.: JP 1987-232094 1987 0918

GI



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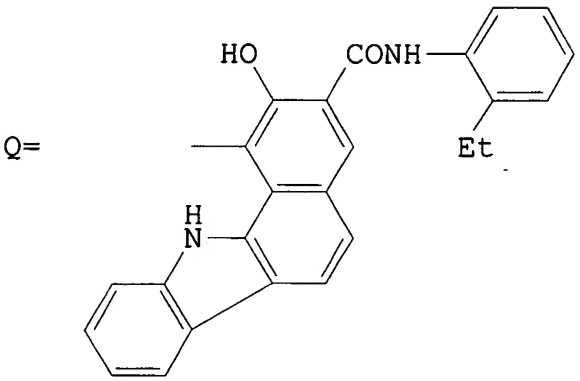


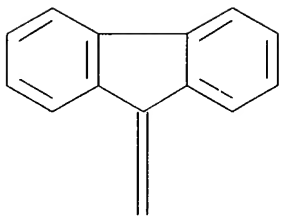
AB In the title photoreceptor, a photoconductive layer contains I [R1-R3 = H, halo, (substituted) alkyl, etc.; A = phenolic coupler]. I is used as a charge generator. This photoreceptor shows improved sensitivity. I (R1 = R2 = R3 = H, A = Q) was used as an example of I.

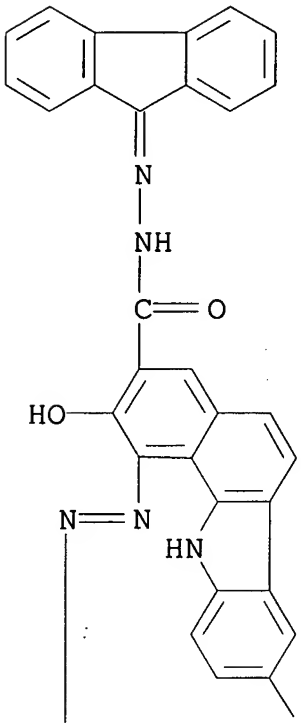
IT **124408-16-8**
(electrophotog. photoreceptor material)

RN 124408-16-8 CAPLUS

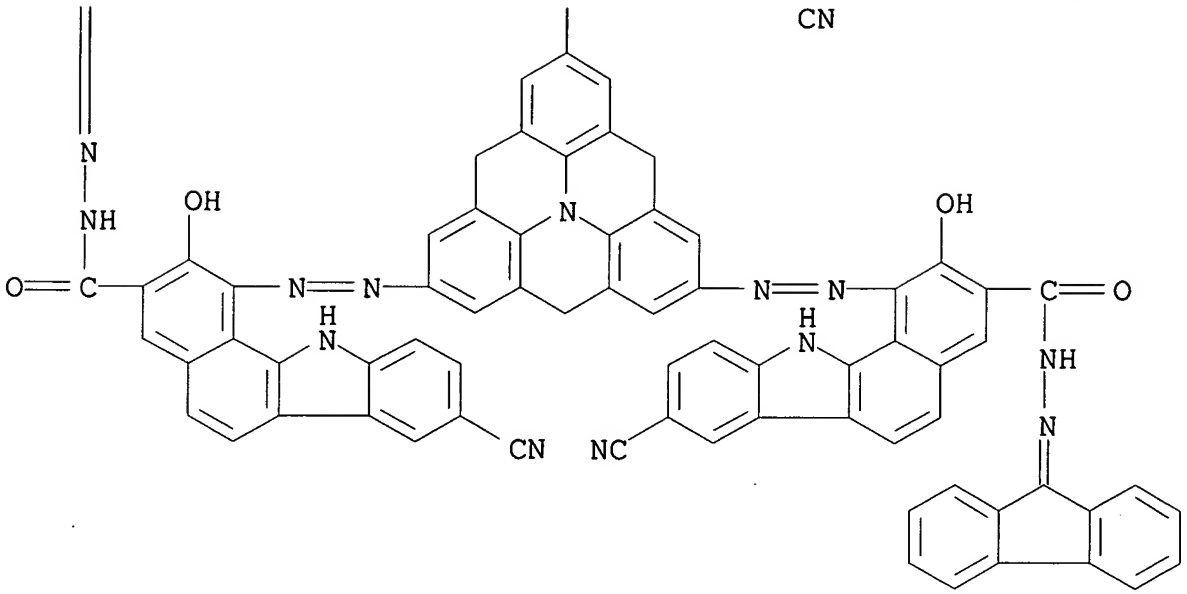
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1',1''-[4H,8H,12H-benzo[1,9]quinolizino[3,4,5,6,7-defg]acridine-2,6,10-triyltris(azo)]tris[8-cyano-2-hydroxy-, tris(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A





PAGE 2-A



IC ICM G03G005-06
ICS C09B035-378

CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
Section cross-reference(s): **41**

IT 124408-08-8 124408-09-9 124408-10-2 124408-11-3
124408-12-4 124408-13-5 124408-14-6 124408-15-7
124408-16-8 124408-17-9 124408-18-0 124408-19-1
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124408-24-8 124408-25-9 124408-26-0 124408-27-1
124408-28-2 124408-29-3 124408-30-6 124408-31-7
124451-18-9
(electrophotog. photoreceptor material)

L12 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:45619 CAPLUS
DOCUMENT NUMBER: 112:45619
TITLE: Electrophotographic photoreceptor
INVENTOR(S): Anayama, Hideki; Miyazaki, Hajime
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

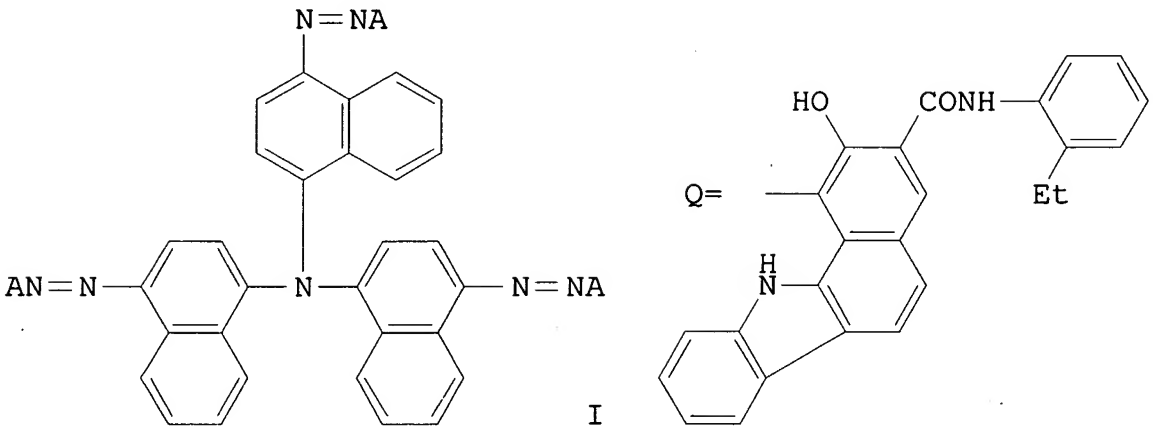
USHA SHRESTHA REM 4B28

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01076062	A2	19890322	JP 1987-232096	19870918

PRIORITY APPLN. INFO.: JP 1987-232096 19870918

GI



I

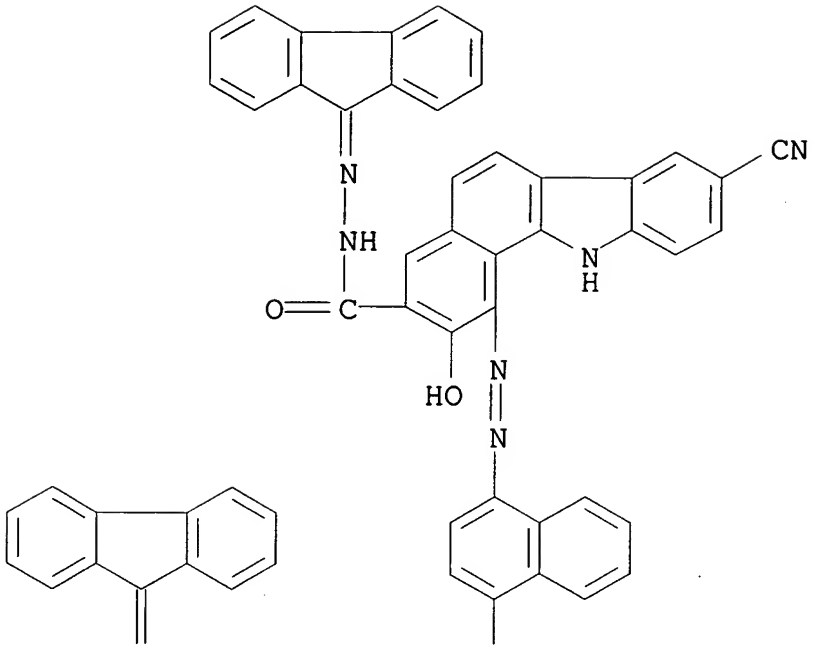
AB In the title photoreceptor, a photoconductive layer contains I (A = phenolic coupler). I is used as a charge generator. The photoreceptor shows improved sensitivity and stable chargeability. I (A = Q) was used as an example of I as a charge generator.

IT **124408-46-4**
(electrophotog. photoreceptor material)

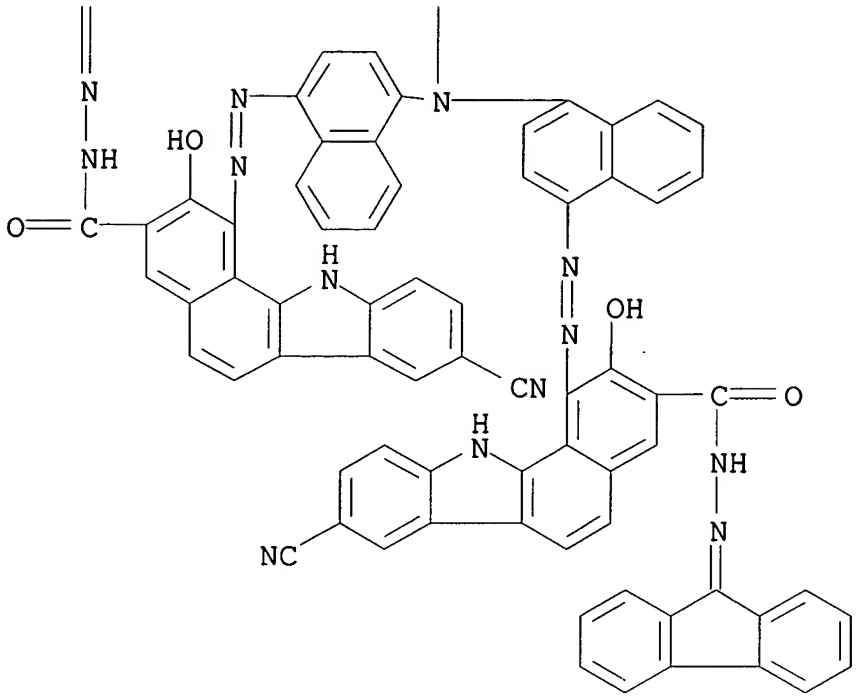
RN 124408-46-4 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1',1''-[nitrilotris(4,1-naphthalenediylazo)]tris[8-cyano-2-hydroxy-, tris(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G03G005-06
ICS C09B035-378
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
Section cross-reference(s): **41**
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124408-41-9 124408-42-0 124408-43-1 124408-44-2
124408-45-3 **124408-46-4** 124408-47-5 124408-48-6
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124408-53-3 124408-54-4 124408-55-5 124408-56-6
124424-93-7 124424-94-8 124424-95-9 124559-50-8
124786-23-8
(electrophotog. photoreceptor material)

L12 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:28068 CAPLUS
DOCUMENT NUMBER: 112:28068
TITLE: Electrophotographic photoreceptor containing trisazoheterocycle
INVENTOR(S): Miyazaki, Hajime; Anayama, Hideki

PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01076060	A2	19890322	JP 1987-232093	19870918

PRIORITY APPLN. INFO.: JP 1987-232093 19870918

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

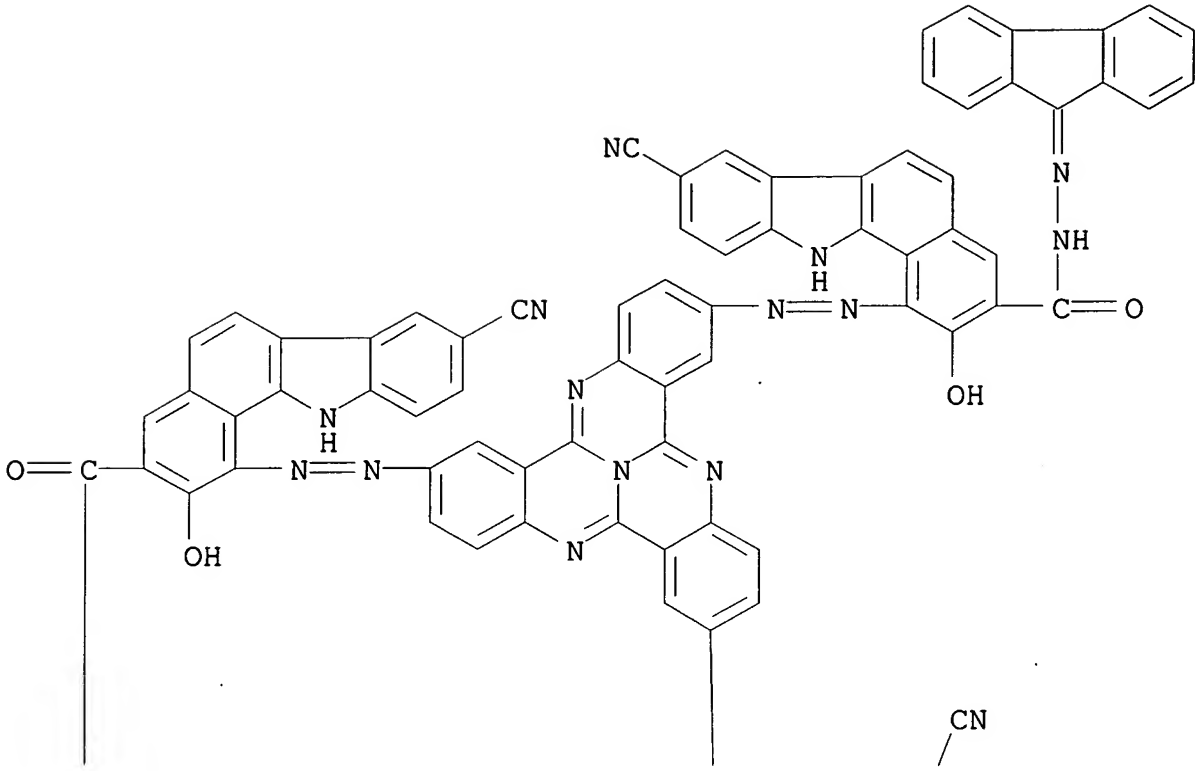
AB In the title photoreceptor, a photoconductive layer contains trisazoheterocycle I [R1-R9 = H, (substituted) alkyl, halo; A = phenolic coupler]. This photoreceptor shows improved sensitivity and stable chargeability. I (R1-R9 = H, A = Q) was used as an example of I as a charge generator.

IT **124407-94-9**
(electrophotog. photoreceptor material)

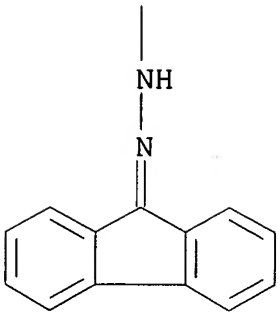
RN 124407-94-9 CAPLUS

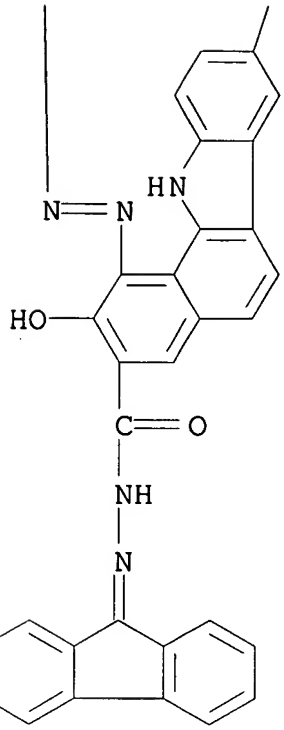
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1',1''-[3,8,13-tricycloquinazolinetriyltris(azo)]tris[8-cyano-2-hydroxy-, tris(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A





IC ICM G03G005-06
ICS C09B035-378
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
Section cross-reference(s): **41**
IT 124407-83-6 124407-84-7 124407-85-8 124407-86-9
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124407-91-6 124407-92-7 124407-93-8 **124407-94-9**
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124407-99-4 124408-00-0 124408-01-1 124408-02-2
124408-03-3 124408-04-4 124408-05-5 124424-91-5
124424-92-6
(electrophotog. photoreceptor material)

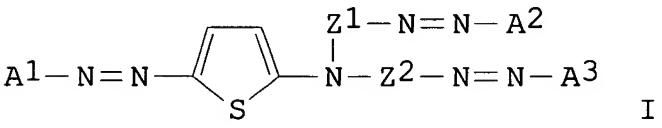
L12 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:104886 CAPLUS
DOCUMENT NUMBER: 110:104886
TITLE: Organic composite electrophotographic photoreceptor containing trisazo pigment
INVENTOR(S): Matsumoto, Masakazu; Takiguchi, Takao

PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63148267	A2	19880621	JP 1986-294719	1986 1212

PRIORITY APPLN. INFO.: JP 1986-294719 1986 1212

OTHER SOURCE(S): MARPAT 110:104886
GI



I

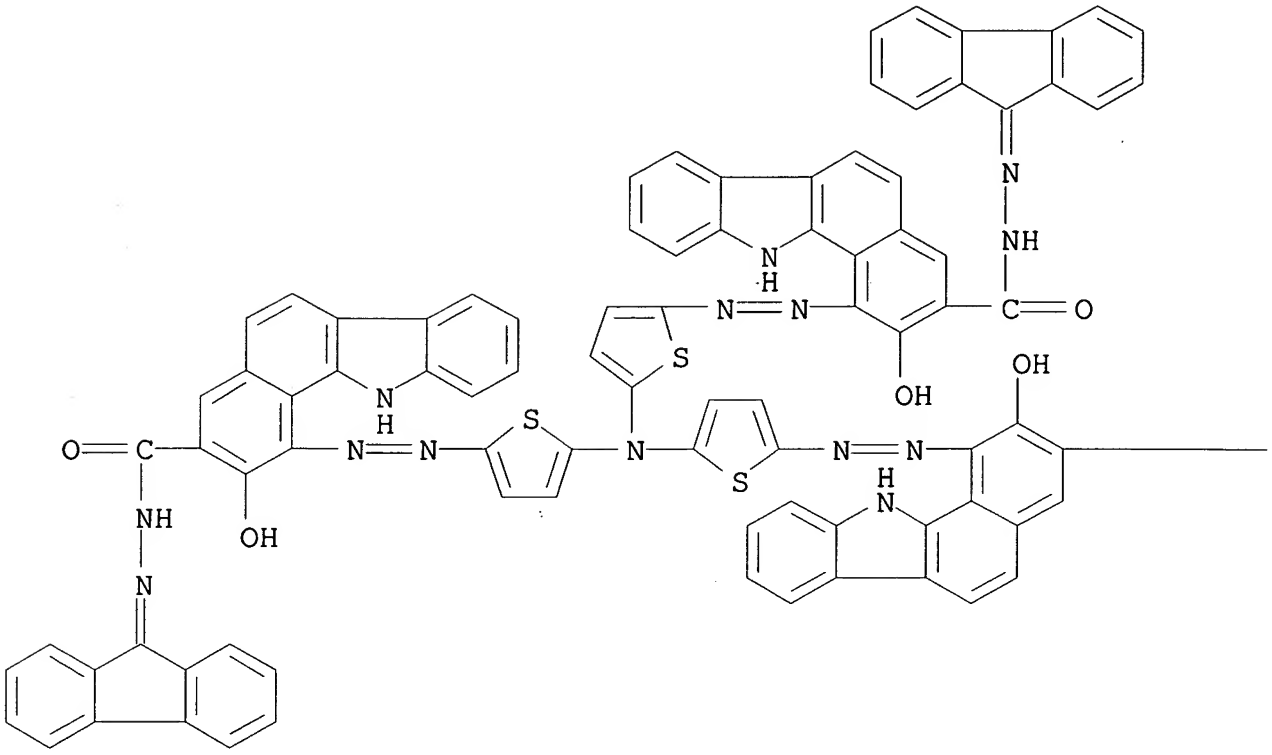
AB The title photoreceptor has a photosensitive layer containing a trisazo pigment I (Z1, Z2 = thiophenylene, arylene; A1-A3 = coupler residue having phenolic OH). The photoreceptor shows improved sensitivity and durability.

IT **119318-22-8 119318-28-4**
(electrophotog. charge-generating agent)

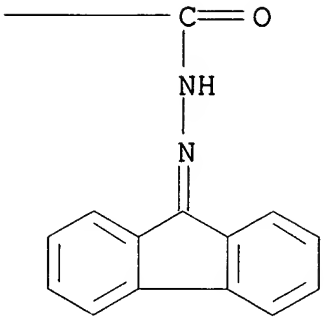
RN 119318-22-8 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1',1''-[nitrilotris(5,2-thiophenediylazo)]tris[2-hydroxy-, tris(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A

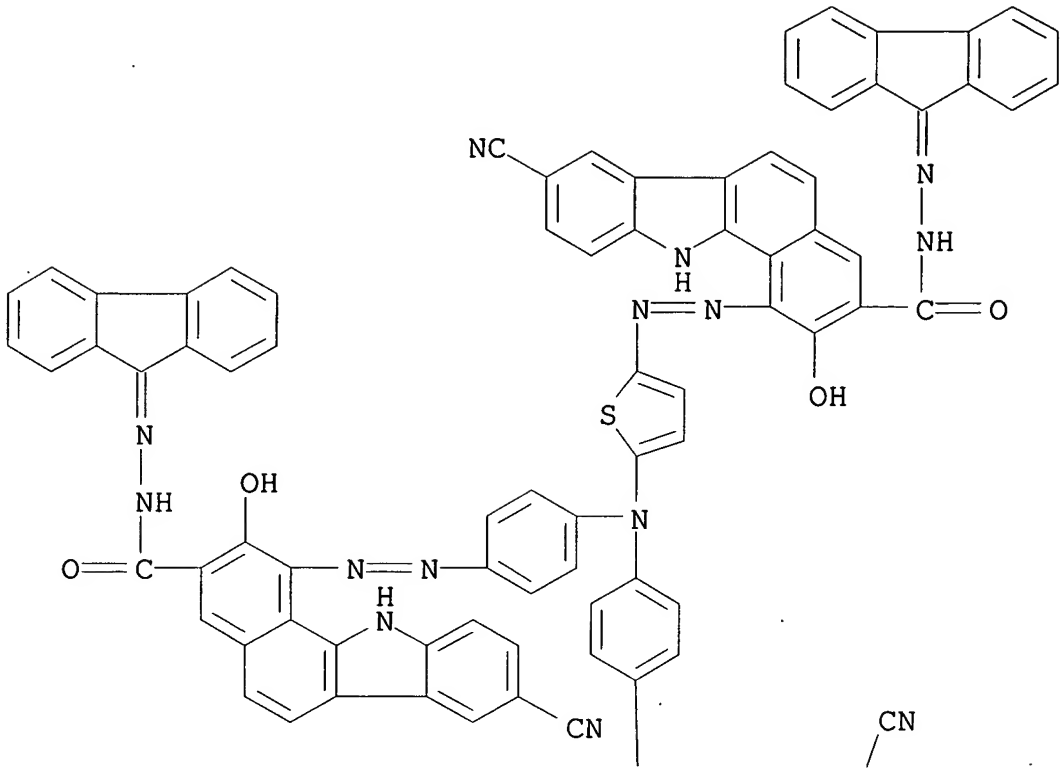


PAGE 1-B

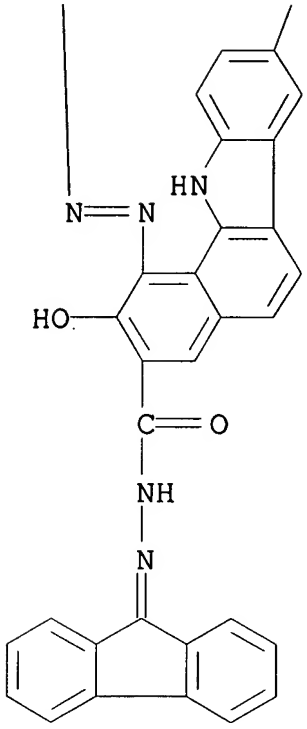


RN 119318-28-4 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1'-[[[5-[[8-cyano-3-[(9H-fluoren-9-ylidenehydrazino)carbonyl]-2-hydroxy-11H-benzo[a]carbazol-1-yl]azo]-2-thienyl]imino]bis(4,1-phenyleneazo)]bis[8-cyano-2-hydroxy-, bis(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
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119286-20-3 119286-21-4 119286-22-5 119286-23-6
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119286-32-7 119286-33-8 119286-34-9 119286-35-0
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119286-60-1 119318-17-1 119318-18-2 119318-19-3
119318-20-6 119318-21-7 **119318-22-8** 119318-23-9
119318-25-1 119318-26-2 119318-27-3 **119318-28-4**
119318-29-5 119335-78-3 119335-79-4
(electrophotog. charge-generating agent)

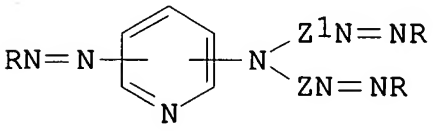
L12 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:580363 CAPLUS
DOCUMENT NUMBER: 109:180363
TITLE: Electrophotographic photoreceptors containing trisazo pigments
INVENTOR(S): Matsumoto, Masakazu; Takiguchi, Takao; Takai, Hideyuki
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63027850	A2	19880205	JP 1986-172580	19860722
JP 04080386	B4	19921218		
US 4810607	A	19890307	US 1987-73221	19870714

PRIORITY APPLN. INFO.: JP 1986-172580 A 19860722

GI



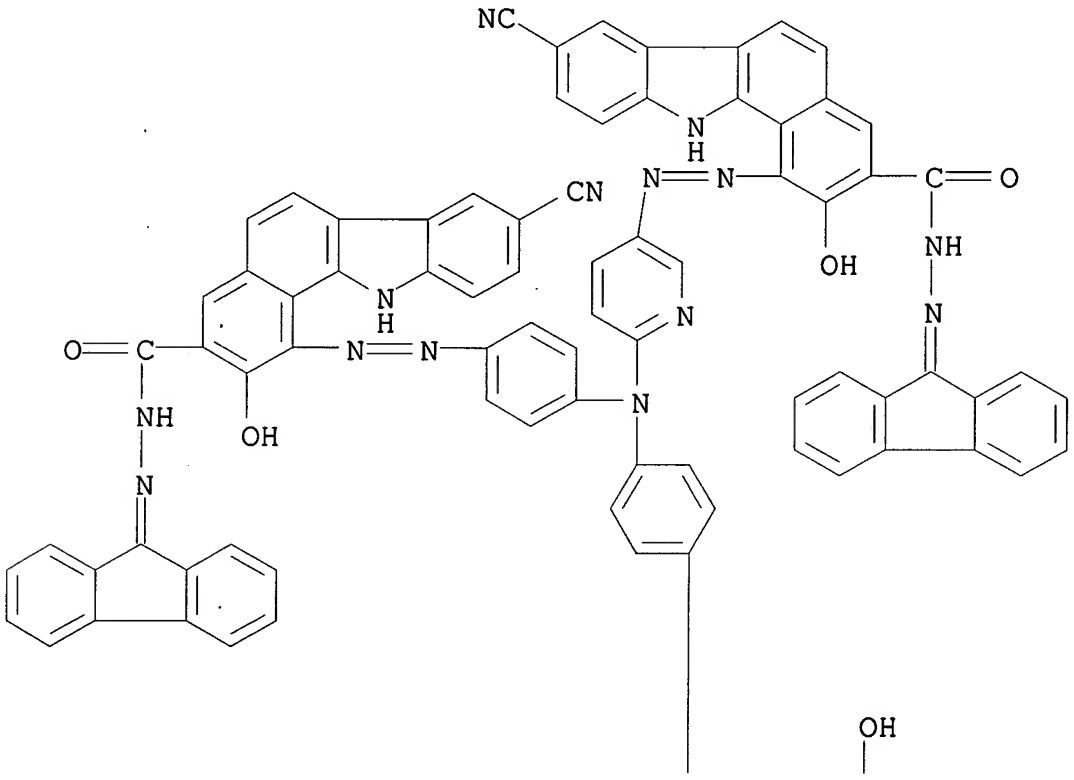
I

AB The title electrophotog. photoreceptors contain a trisazo pigment I (Z, Z1 = divalent pyridine moiety, arylene; R = phenolic OH group-containing coupler moiety). The photoreceptors show good sensitivity toward visible and near IR light and hence can be used in conventional copying machines and semiconductor laser printers.

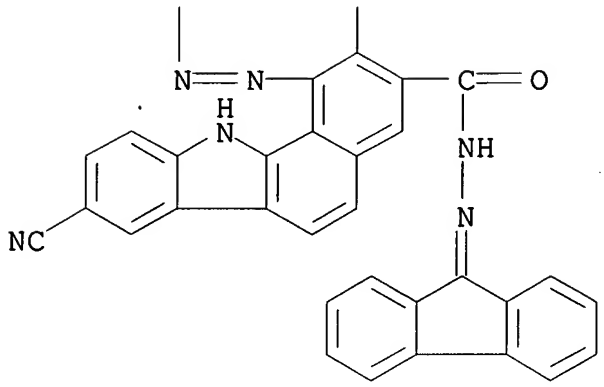
IT **116995-09-6 117008-81-8**
(electrophotog. charge carrier-generating pigment)

RN 116995-09-6 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1'-[[[5-[[8-cyano-3-[(9H-fluoren-9-ylidenehydrazino)carbonyl]-2-hydroxy-11H-benzo[a]carbazol-1-yl]azo]-2-pyridinyl]imino]bis(4,1-phenyleneazo)]bis[8-cyano-2-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

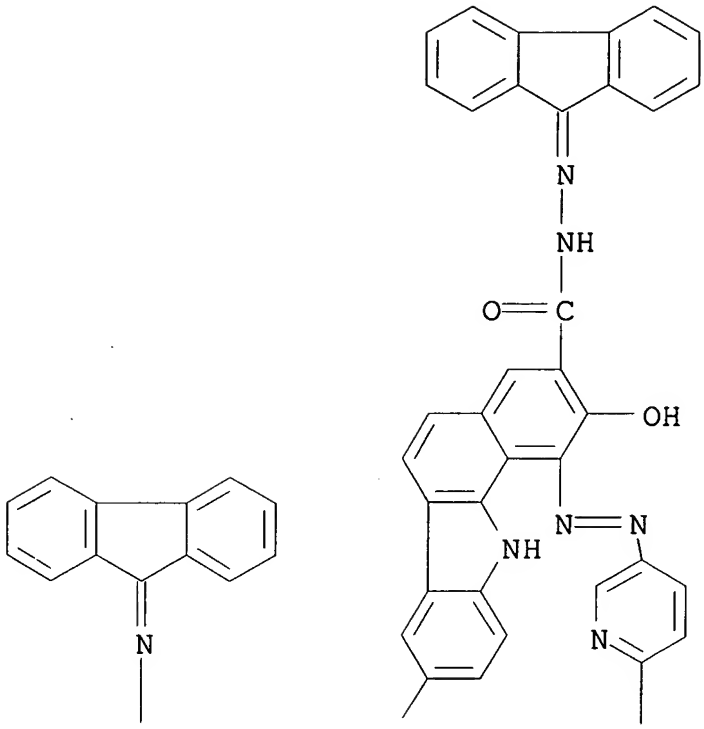


PAGE 2-A

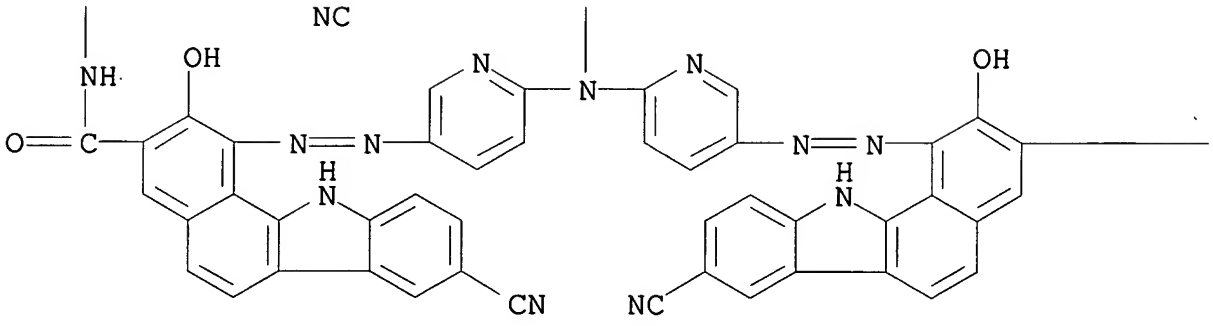


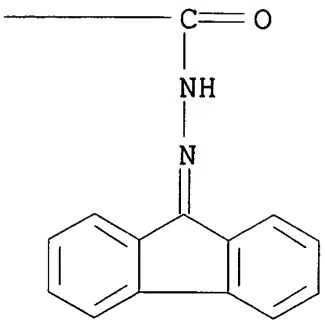
RN 117008-81-8 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1',1''-[nitrilotris(2,5-pyridinediylazo)]tris[8-cyano-2-hydroxy-, tris(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A





IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
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117008-84-1 117008-85-2 117036-80-3 117036-81-4
117036-82-5 117036-83-6 117036-84-7 117036-85-8
117539-81-8
(electrophotog. charge carrier-generating pigment)

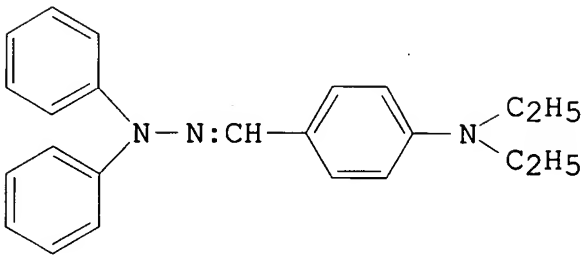
L12 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:464250 CAPLUS
DOCUMENT NUMBER: 109:64250
TITLE: Method for electrophotographic development
INVENTOR(S): Shigeta, Kunio; Masaki, Hironari; Takagiwa, Hiroyuki; Tsujita, Kenji; Takahashi, Jiro
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62293253	A2	19871219	JP 1986-135899	19860613

PRIORITY APPLN. INFO.: JP 1986-135899 19860613

GI



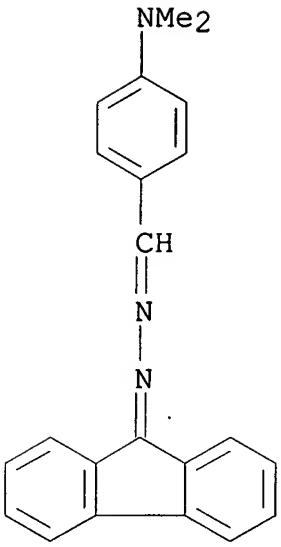
I

AB The title method is characterized by the use of a toner >0.5 g/cm3 in bulk d. and containing a fluidizer >20 μm in average particle diameter with a photoreceptor which has a surface layer containing a hydrazone and/or a styryl compound Thus, a mixture of a toner powder (from a polyester 100, C black 10, and Viscol 660P 3 weight parts) 100 and hydrophobic TiO2 0.5 weight part was used with a carrier for an electrophotog. photoreceptor containing I to produce fog-free images with good reproducibility.

IT **75159-08-9**
(electrophotog. photoreceptor containing)

RN 75159-08-9 CAPLUS

CN Benzaldehyde, 4-(dimethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



IC ICM G03G009-08
ICS G03G009-08
ICA G03G005-06; G03G015-08; G03G015-28
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 2564-18-3 68189-23-1 **75159-08-9** 84285-21-2 84746-55-4
(electrophotog. photoreceptor containing)

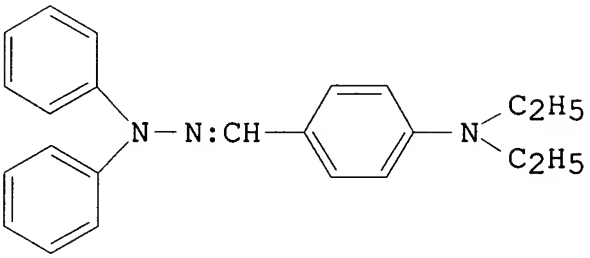
L12 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:464249 CAPLUS
DOCUMENT NUMBER: 109:64249
TITLE: Method for electrophotographic development
INVENTOR(S): Shigeta, Kunio; Masaki, Hironari; Takagiwa, Hiroyuki; Tsujita, Kenji; Takahashi, Jiro
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 62293251 A2 19871219 JP 1986-135896
1986
0613

PRIORITY APPLN. INFO.: JP 1986-135896
1986
0613

GI



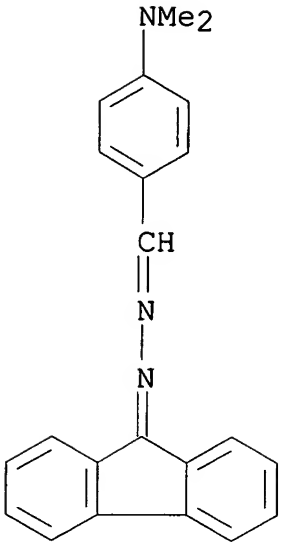
I

AB The title method is characterized by the use of a toner >0.35 g/cm3 in bulk d. and containing a fluidizer >20 μm in average particle diameter and a fatty acid metal salt with a photoreceptor having a surface layer containing a hydrazone and/or a styryl compound Thus, a toner powder (from a polyester 100, C black 10, and Viscol 660P 3 weight parts) 100, hydrophobic TiO2 particles 0.6, and Zn stearate 0.05 weight part were mixed. The mixed toner was used with a carrier for an electrophotog. photoreceptor containing I to produce sharp fog-free images.

IT **75159-08-9**
(electrophotog. photoconductor containing)

RN 75159-08-9 CAPLUS

CN Benzaldehyde, 4-(dimethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



IC ICM G03G009-08
ICS G03G009-08
ICA G03G005-06; G03G015-08
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 2564-18-3 68189-23-1 **75159-08-9** 84285-21-2 84746-55-4
(electrophotog. photoconductor containing)

L12 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:29377 CAPLUS
DOCUMENT NUMBER: 108:29377
TITLE: Electrophotographic photoreceptors
INVENTOR(S): Matsumoto, Masakazu; Umehara, Masashige; Takiguchi, Takao; Ishikawa, Shozo
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 151 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 62147463	A2	19870701	JP 1985-288179	1985 1220
JP 05049229	B4	19930723		
PRIORITY APPLN. INFO.:			JP 1985-288179	1985 1220

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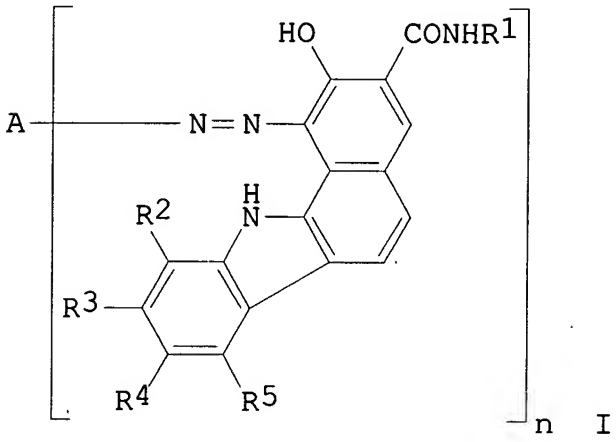


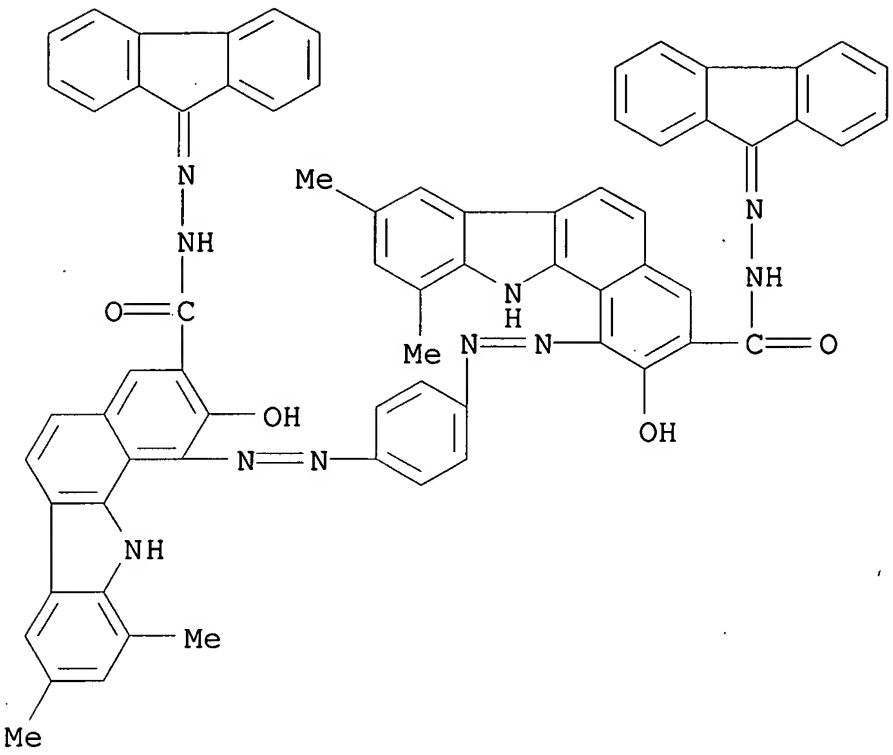
I

AB The claimed electrophotog. photoreceptor contains a compound of the formula I (A = an aromatic or heterocyclic moiety; R1 = alkyl, aryl, aralkyl, N:CR6R7; R2-R5 = H, halo, OH, NO2, CF3, CN, alkyl, alkoxy, aryl, aralkyl, NH2; R6, R7 = H, alkyl, aralkyl, heterocyclyl; R2R3, R3R4, R4R5, and R6R7 in combination may form rings; n = 2-4). The photoreceptor shows excellent sensitivity in the visible and near IR region; hence it is useful for laser printers and copiers.

IT **111785-34-3 111785-39-8**
(electrophotog. charge carrier generating pigments)

RN 111785-34-3 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1'-[1,4-phenylenebis(azo)]bis[2-hydroxy-8,10-dimethyl-, bis(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)



RN 111785-39-8 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1'-[9,10-anthracenediylbis(azo)]bis[8-fluoro-2-hydroxy-, bis(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

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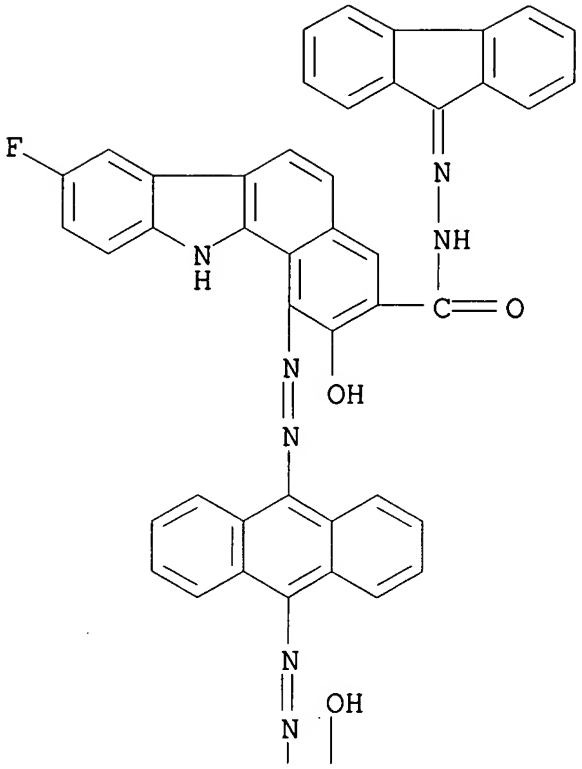
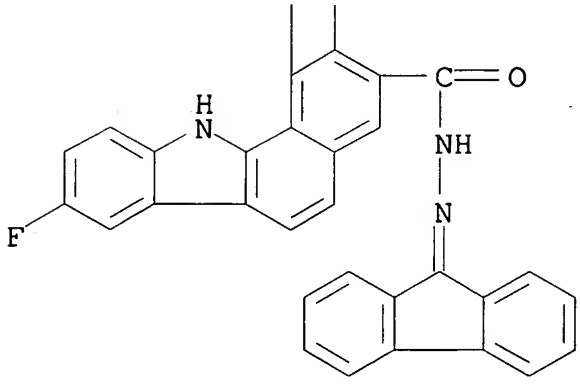


PAGE 2-A



IC ICM G03G005-06

USHA SHRESTHA REM 4B28

CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

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111843-98-2 111843-99-3 111844-00-9 111844-01-0
112100-00-2
(electrophotog. charge carrier generating pigments)

L12 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:415493 CAPLUS
DOCUMENT NUMBER: 107:15493
TITLE: Electrophotographic charge-generating trisazo photoconductors
INVENTOR(S): Matsumoto, Masakazu; Miyazaki, Hajime; Yamashita, Masataka
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61281243	A2	19861211	JP 1985-122756	19850607
JP 03080303	B4	19911224		

PRIORITY APPLN. INFO.: JP 1985-122756 19850607

AB The trisazo photoconductor has the formula A-N:N-Z1-N(NO)-Z2-N:N-Z3-N:N-A (Z1-Z3 = phenylene, aromatic condensed polycyclylene, heterocyclylene; A = coupler residue having a phenolic OH group) (e.g., Z1 = Z2 = Z3 = 1,4-phenylene; A = coupling residue from 3-hydroxy-2-naphthoic acid anilide). It provides organic composite photoconductors with improved sensitivity.

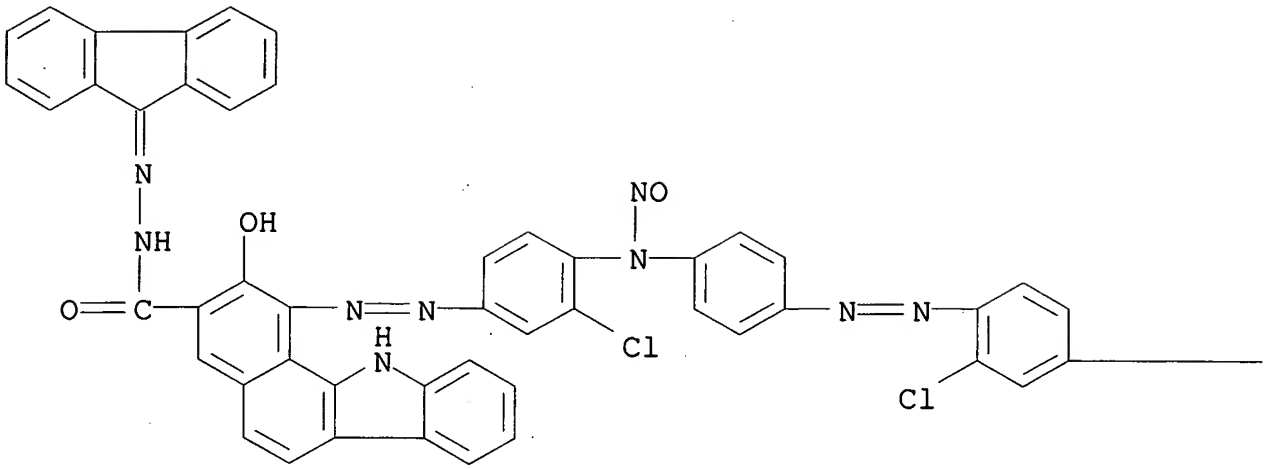
IT **108406-43-5**
(electrophotog. charge-generating trisazo photoconductor, with improved sensitivity)

RN 108406-43-5 CAPLUS

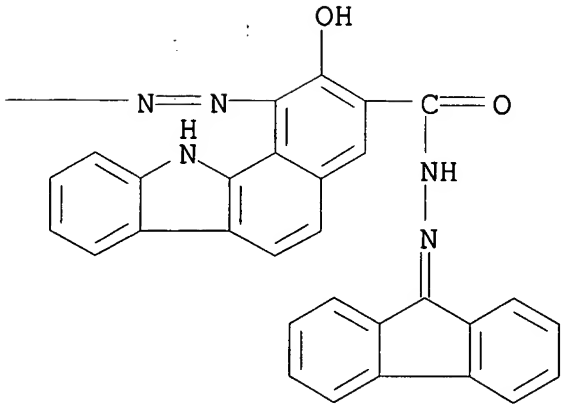
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1-[[3-chloro-4-[[4-[[2-chloro-4-[[3-[(9H-fluoren-9-ylidenehydrazino)carbonyl]-2-hydroxy-11H-benzo[a]carbazol-1-yl]azo]phenyl]azo]phenyl]nitrosoamino]phenyl]azo]-2-hydroxy-, 9H-fluoren-9-ylidenehydrazide (9CI) (CA INDEX

NAME)

PAGE 1-A



PAGE 1-B



IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 108406-25-3 108406-26-4 108406-27-5 108406-28-6
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108764-57-4
(electrophotog. charge-generating trisazo photoconductor, with improved sensitivity)

L12 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:224461 CAPLUS
DOCUMENT NUMBER: 106:224461
TITLE: Electrophotographic charge-generating trisazo photoconductors
INVENTOR(S): Matsumoto, Masakazu; Takiguchi, Takao; Umehara, Masashige; Yamashita, Masataka; Ishikawa, Shozo
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61281244	A2	19861211	JP 1985-122757	19850607
JP 03080304	B4	19911224		
US 4702982	A	19871027	US 1986-865849	19860522

PRIORITY APPLN. INFO.: JP 1985-119116 A

1985
0531

JP 1985-118978 A
1985
0603

JP 1985-122757 A
1985
0607

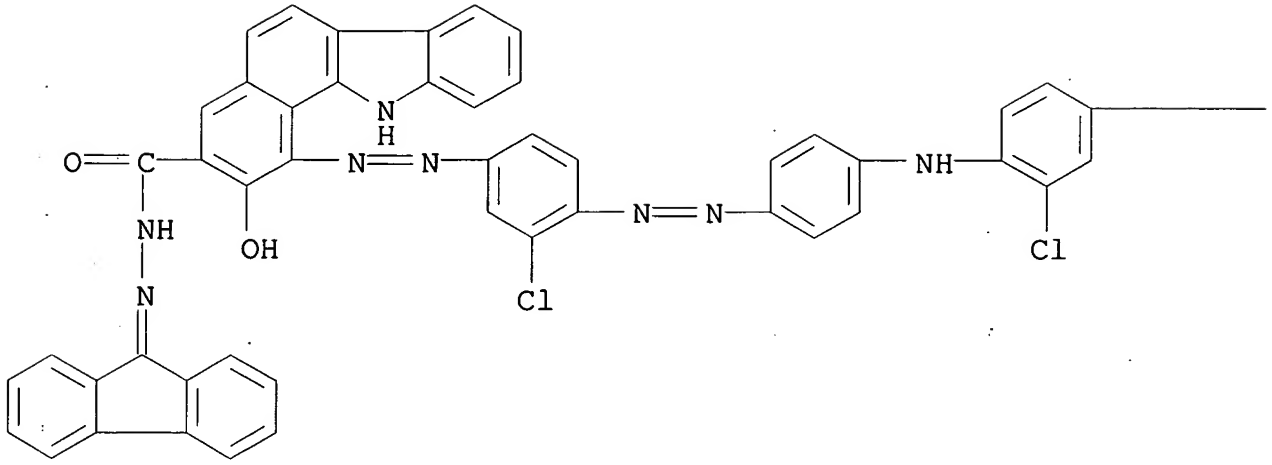
AB The trisazo photoconductor has the formula A-N:N-Z1-NH-Z2-N:N-Z3-N:N-A (Z1-Z3 = phenylene, aromatic condensed polycyclylene, heterocyclylene; A = coupler residue having a phenolic OH group) (e.g., Z1 = Z2 = Z3 = 1,4-phenylene; A = coupling residue from 3-hydroxy-2-naphthoic acid anilide). It provides organic composite photoconductors with improved sensitivity.

IT **108406-84-4**
(electrophotog. charge-generating trisazo photoconductor, with improved sensitivity)

RN 108406-84-4 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1-[[3-chloro-4-[[4-[[2-chloro-4-[[3-[(9H-fluoren-9-ylidenehydrazino)carbonyl]-2-hydroxy-11H-benzo[a]carbazol-1-yl]azo]phenyl]amino]phenyl]azo]phenyl]azo]-2-hydroxy-, 9H-fluoren-9-ylidenehydrazide (9CI) (CA INDEX NAME)

PAGE 1-A



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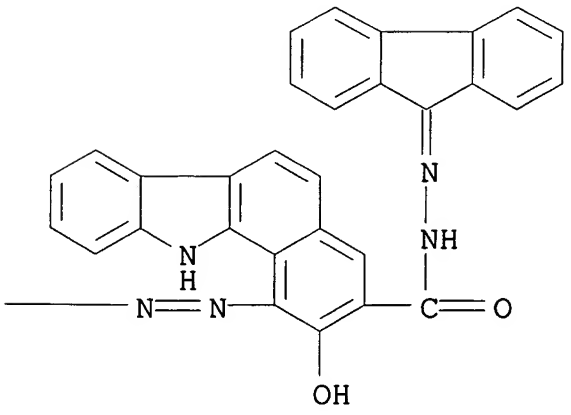

IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, **Photochemistry**, and

Photographic and Other Reprographic Processes)

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108427-43-6
(electrophotog. charge-generating trisazo photoconductor, with improved sensitivity)

L12 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:186429 CAPLUS
DOCUMENT NUMBER: 106:186429
TITLE: Electrophotographic photoreceptors containing charge-generating disazo compounds
INVENTOR(S): Matsumoto, Masakazu; Takiguchi, Takao; Umehara, Masashige; Yamashita, Masataka; Ishikawa, Shozo
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61275850	A2	19861205	JP 1985-119116	19850531
JP 04017426	B4	19920325		
US 4702982	A	19871027	US 1986-865849	19860522

PRIORITY APPLN. INFO.: JP 1985-119116 A 19850531

JP 1985-118978	A	1985 0603
JP 1985-122757	A	1985 0607

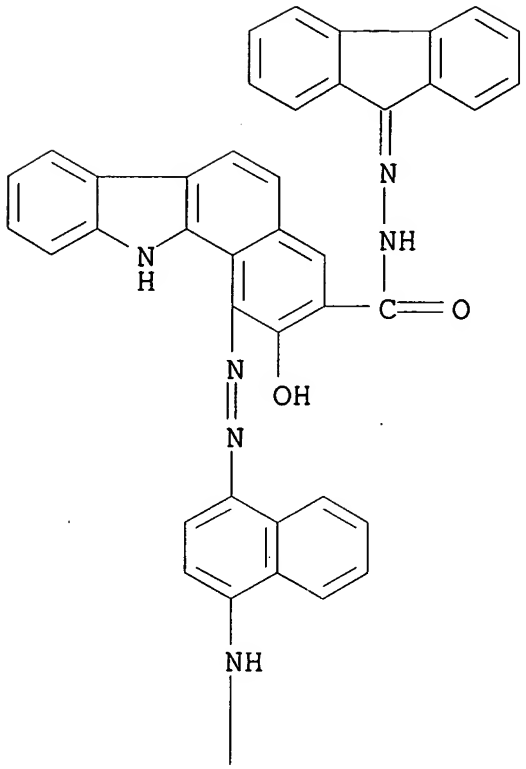
AB The disazo compound has the formula (AN:NZ1)N(NH)(Z2N:NA) (I; A = coupler residue having a phenolic OH group; Z1, Z2 = phenylene, polynuclear arylene, heterocyclylene). The photoreceptor was prepared by dispersing in a poly(vinyl butyral) binder a disazo compound of the formula I (Z1 = 1,4-naphthylene; Z2 = 1,4-phenylene; A = coupler residue from 3-hydroxy-2-naphthoic acid anilide) to give a charge-generating layer and dispersing in a PMMA binder a hydrazone compound to form a charge-transport layer. The photoreceptor shows improved sensitivity and stability.

IT **108079-63-6**
(electrophotog. photoreceptor containing charge-generating compound from, with improved sensitivity and stability)

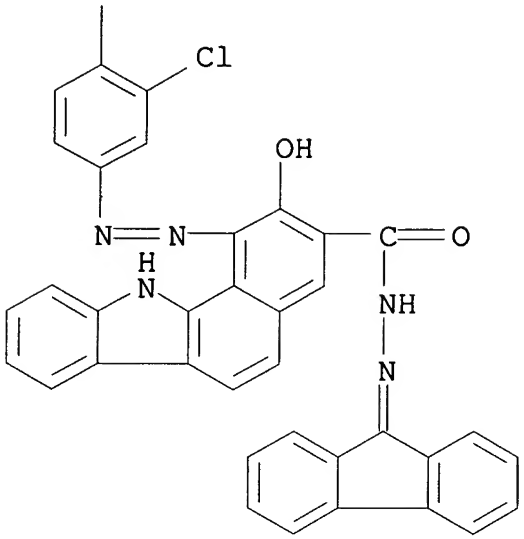
RN 108079-63-6 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1-[[3-chloro-4-[[4-[[3-[(9H-fluoren-9-ylidenehydrazino)carbonyl]-2-hydroxy-11H-benzo[a]carbazol-1-yl]azo]-1-naphthalenyl]amino]phenyl]azo]-2-hydroxy-, 9H-fluoren-9-ylidenehydrazide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 108079-61-4 108079-62-5 **108079-63-6** 108079-64-7
108079-65-8 108079-66-9 108079-67-0 108079-68-1
108079-69-2 108079-70-5 108079-71-6 108079-72-7
108079-73-8 108079-74-9 108079-75-0 108079-76-1
108079-77-2 108095-74-5 108095-75-6 108095-76-7
108095-77-8 108095-78-9 108095-79-0 108095-80-3
108095-81-4 108095-82-5 108095-83-6 108095-84-7
108095-85-8 108095-86-9 108095-87-0 108095-88-1
108095-89-2 108095-90-5 108095-91-6 108095-92-7
108095-93-8 108118-21-4 108118-22-5 108118-23-6
(electrophotog. photoreceptor containing charge-generating compound from, with improved sensitivity and stability)

L12 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:186428 CAPLUS
DOCUMENT NUMBER: 106:186428
TITLE: Electrophotographic photoreceptors containing charge-generating disazo compounds
INVENTOR(S): Matsumoto, Masakazu; Yamashita, Masataka; Miyazaki, Hajime
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61275849	A2	19861205	JP 1985-119115	19850531
JP 04017425	B4	19920325		

PRIORITY APPLN. INFO.: JP 1985-119115 19850531

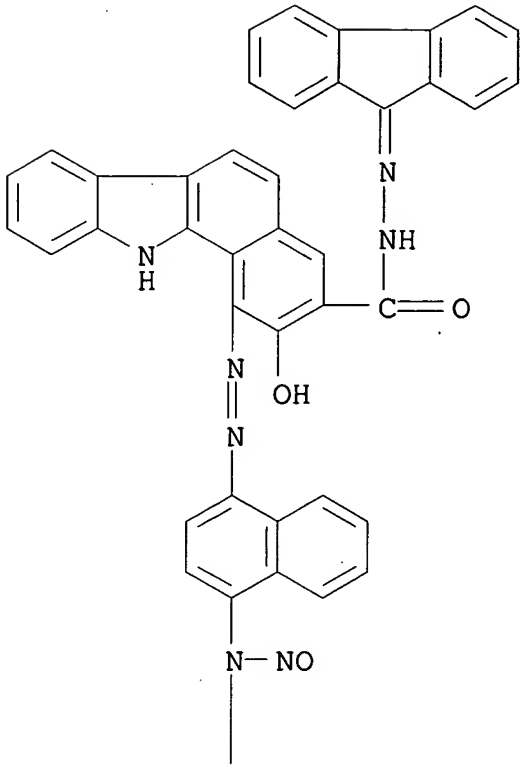
AB The charge-generating agent has the formula (AN:NZ1)N(NO)(Z2N:NA) (I; A = coupler residue having a phenolic OH group; Z1, Z2 = phenylene, polynuclear arylene, heterocyclene). A photoreceptor was prepared by dispersing in a poly(vinyl butyral) binder the disazo compound I (Z1 = 1,4-naphthylene; Z2 = 1,4-phenylene; A = coupler residue from 3-hydroxy-2-naphthoic acid anilide) to give a charge-generating layer and then dispersing in a PMMA binder a hydrazone compound to form a charge-transport layer. The photoreceptor shows improved sensitivity and stability.

IT **108095-57-4**
(electrophotog. photoreceptor with charge-generating layer containing, for improved sensitivity and stability)

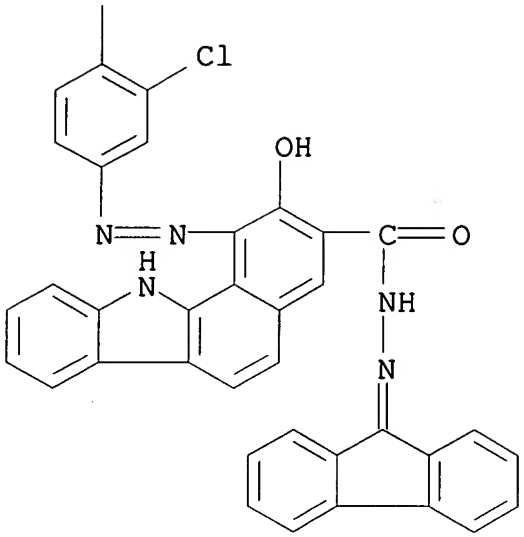
RN 108095-57-4 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1-[[3-chloro-4-[[4-[[3-[(9H-fluoren-9-ylidenehydrazino)carbonyl]-2-hydroxy-11H-benzo[a]carbazol-1-yl]azo]-1-naphthalenyl]nitrosoamino]phenyl]azo]-2-hydroxy-, 9H-fluoren-9-ylidenehydrazide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G03G005-06
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 108095-37-0 108095-38-1 108095-39-2 108095-40-5
108095-41-6 108095-42-7 108095-43-8 108095-44-9
108095-45-0 108095-46-1 108095-47-2 108095-48-3
108095-49-4 108095-50-7 108095-51-8 108095-52-9
108095-53-0 108095-54-1 108095-55-2 108095-56-3
108095-57-4 108095-58-5 108095-59-6 108095-60-9
108095-61-0 108095-62-1 108095-63-2 108095-64-3
108095-65-4 108095-66-5 108095-67-6 108095-68-7
108095-69-8 108095-70-1 108095-71-2 108095-72-3
108118-18-9 108118-19-0 108118-20-3
(electrophotog. photoreceptor with charge-generating layer containing, for improved sensitivity and stability)

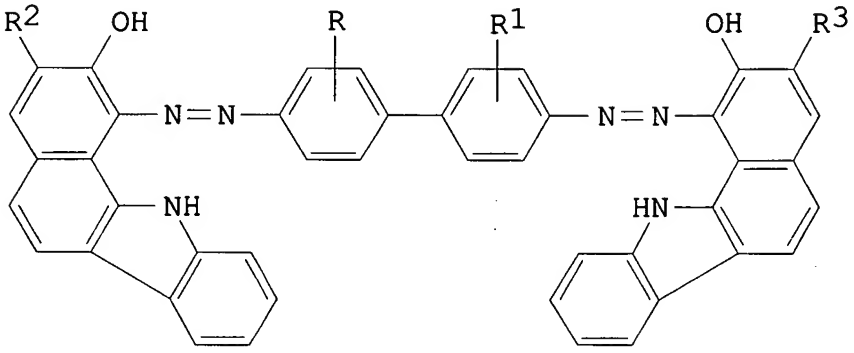
L12 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:216432 CAPLUS
DOCUMENT NUMBER: 104:216432
TITLE: Electrophotographic photoreceptors
INVENTOR(S): Takenochi, Osamu; Kawahara, Tatsuro; Tanaka, Hisami
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

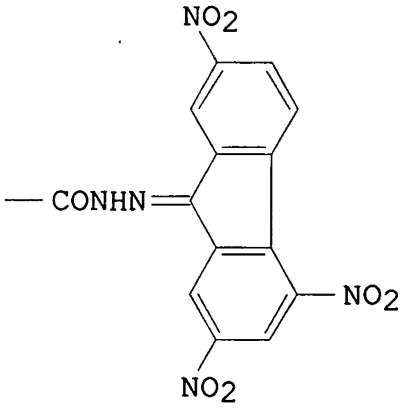
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60146250	A2	19850801	JP 1984-2499	1984 0110

PRIORITY APPLN. INFO.: JP 1984-2499 1984 0110

GI



I



II

AB Electrophotog. photoreceptors have a photoconductive layer containing a bisazo compound of the formula I [R, R1 = H, halo, alkyl, alkoxy, NO2; R2, R3 = CONR4R5, CONHNCR4R5 (R4, R5 = H, substituted or unsubstituted alkyl, a substituted or unsubstituted cyclic hydrocarbon group, a substituted or unsubstituted heterocyclic group, and R4 and R5 together may also form a ring)]. The photoreceptors show high photosensitivity over the entire visible spectrum, excellent mech. strength, little accumulation of residual charge, and little fluctuation of photosensitivity during repeated use. Thus, a dispersion comprised of a polyester resin (Vylon 200) 10, I (R, R1 = Me; R2, R3 = II) 10, and THF 80 parts was coated on an Al-laminated polyester film to give a 10-μ photosensitive layer. The obtained photoreceptor was charged and, after 10 s in the dark, exposed to a W lamp at 5 lx. The photosensitivity (the half decay of the surface voltage) was 18 lx-s.

IT **99897-02-6**
(electrophotog. photoreceptor with photoconductive layer containing)

RN 99897-02-6 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[2-hydroxy-, bis[(2,4,7-trinitro-9H-fluoren-9-ylidene)hydrazide] (9CI) (CA INDEX NAME)

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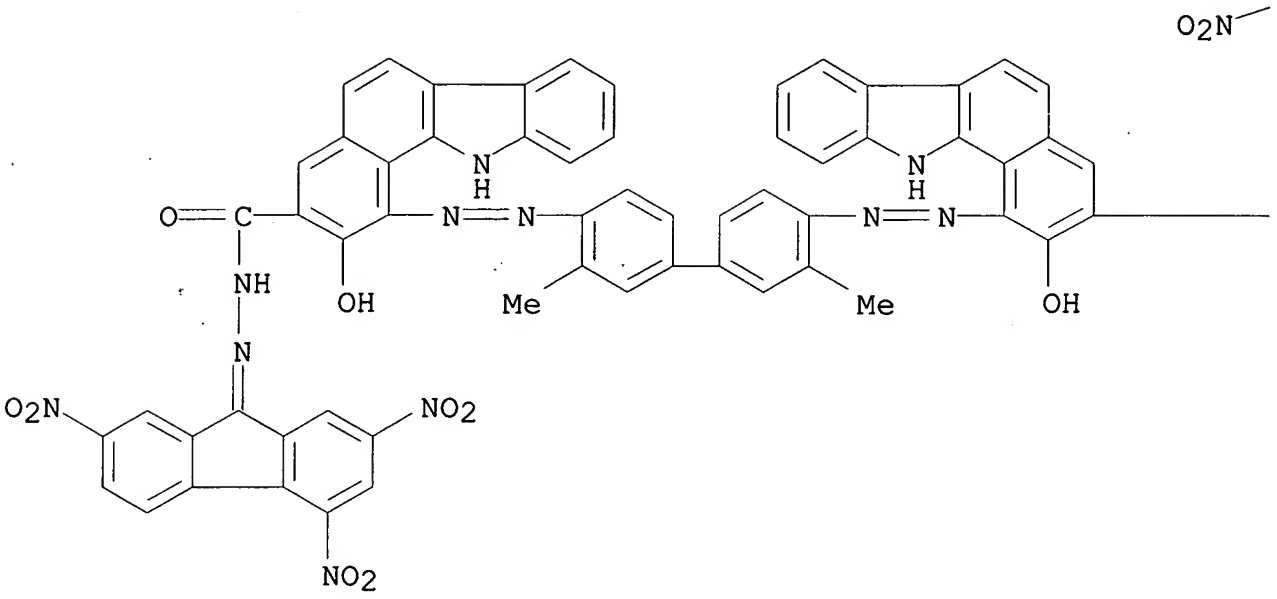
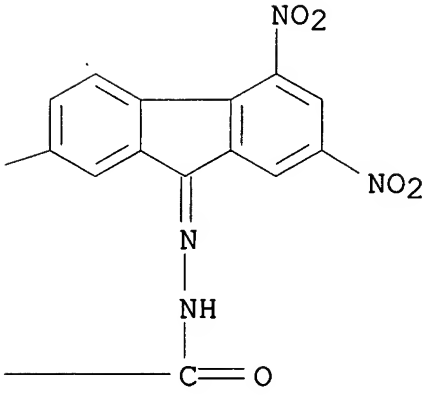


PAGE 1-B



IC ICM G03G005-06
ICS C09B035-039; H01L031-08
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 63737-48-4 99896-92-1 99896-93-2 99896-94-3 99896-95-4 99896-96-5 99896-97-6 99896-98-7 99896-99-8 99897-00-4 99897-01-5 **99897-02-6**
(electrophotog. photoreceptor with photoconductive layer containing)

L12 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:99477 CAPLUS
DOCUMENT NUMBER: 104:99477
TITLE: Electrophotographic photoreceptors
INVENTOR(S): Okunuki, Masami
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60177356	A2	19850911	JP 1984-33634	19840224
JP 04073783	B4	19921124		
PRIORITY APPLN. INFO.:			JP 1984-33634	19840224

GI For diagram(s), see printed CA Issue.
AB The claimed photoreceptors containing an azo compound having an azo group(s) bonded to a coupler moiety of the formula I (R-R3 = H, halo, alkyl, aralkyl, amino, alkoxy, acyl; A = carbocyclic or heterocyclic aromatic ring). The azo compds. are especially useful as electrophotog. charge carrier-generating pigments.
IT **100584-78-9 100632-01-7**
(electrophotog. charge carrier-generating pigment)
RN 100584-78-9 CAPLUS
CN 9H-Carbazole-3-carboxylic acid, 1,1'-[1,3,4-oxadiazole-2,5-diylbis(4,1-phenyleneazo)]bis[2-hydroxy-, bis(9H-fluoren-9-

ylidenehydrazide) (9CI) (CA INDEX NAME)

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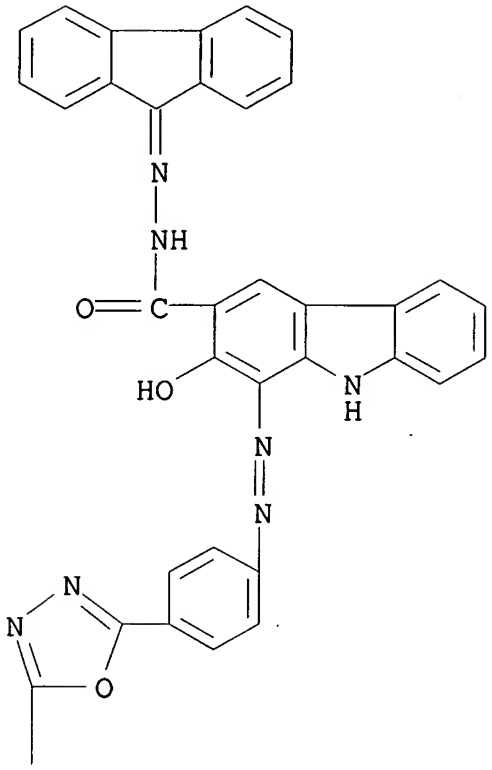

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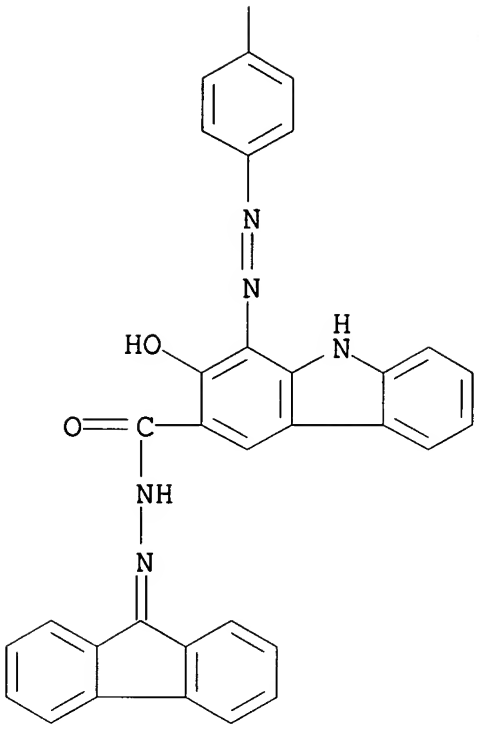
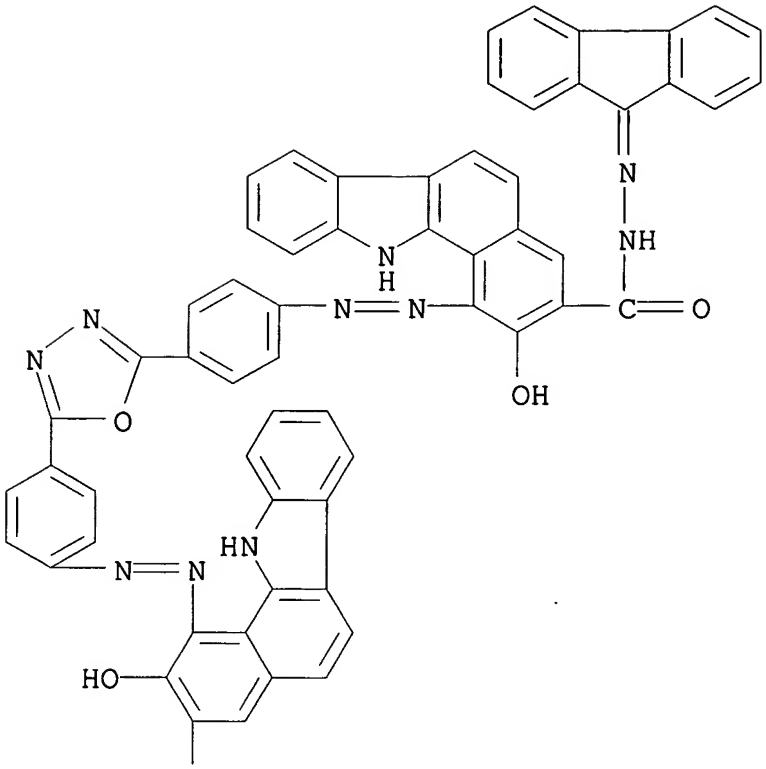
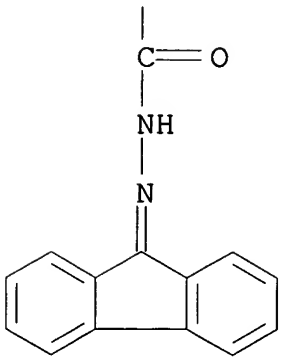


RN 100632-01-7 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1,1'-[1,3,4-oxadiazole-2,5-diylbis(4,1-phenyleneazo)]bis[2-hydroxy-, bis(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM G03G005-06

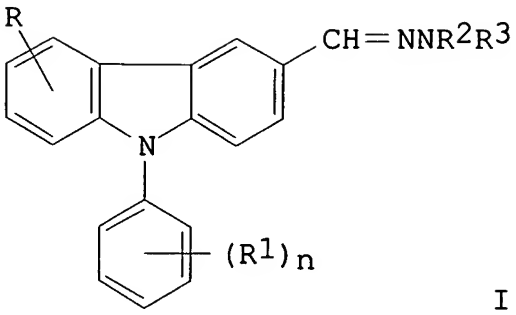
ICS G03G005-04
ICA C09B035-021; H01L031-08
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
Section cross-reference(s): 72
IT 100465-81-4 100584-63-2 100584-64-3 100584-65-4
100584-66-5 100584-67-6 100584-68-7 100584-69-8
100584-70-1 100584-71-2 100584-72-3 100584-73-4
100584-74-5 100584-75-6 100584-76-7 100584-77-8
100584-78-9 100631-96-7 100631-97-8 100631-98-9
100631-99-0 100632-00-6 **100632-01-7**
(electrophotog. charge carrier-generating pigment)

L12 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:140804 CAPLUS
DOCUMENT NUMBER: 102:140804
TITLE: Photosensitive material for electrophotography
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59195660	A2	19841106	JP 1983-69204	1983 0421

PRIORITY APPLN. INFO.: JP 1983-69204 1983 0421

GI



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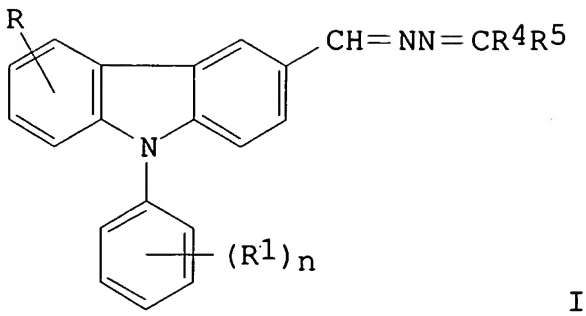


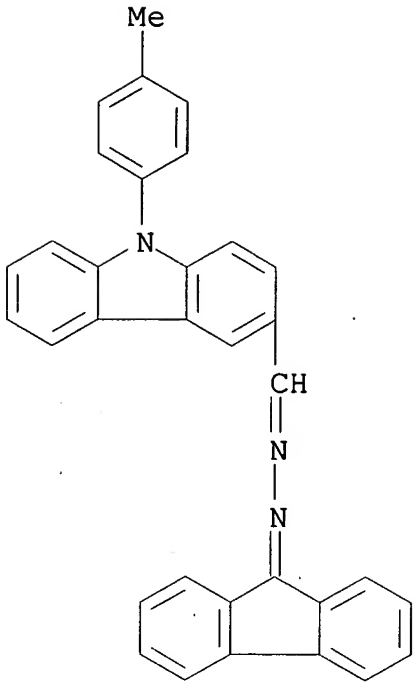
II

AB A photosensitive material for electrophotog. is described, whose conductive support has a photosensitive layer containing ≥1 carbazole deriv(s). I and/or II, where R, R1 = H, alkyl, alkoxy, halo, dialkylamino-, acyl, CN; R2, R5 = alkyl, substituted or unsubstituted aralkyl, or substituted or unsubstituted aryl (excluding R3 and R4 being alkyl); R4, R5 = alkyl, aralkyl, or substituted or unsubstituted aryl; R4 and/or R5 is substituted or unsubstituted aryl; R4 and R5 may form a ring or be heteroatoms for forming a heterocyclic ring; and n = 1 or 2. Thus, an Al-deposited polyester base wass coated with a composition containing C. I. Pigment Blue 25, and Vylon 200 polyester to form a charge-generation layer and then with a composition containing I, where R, R1 = H; R2 = Me; R3 = Ph,and n = 1, and Panlite K 1300 to form a charge-transport layer.

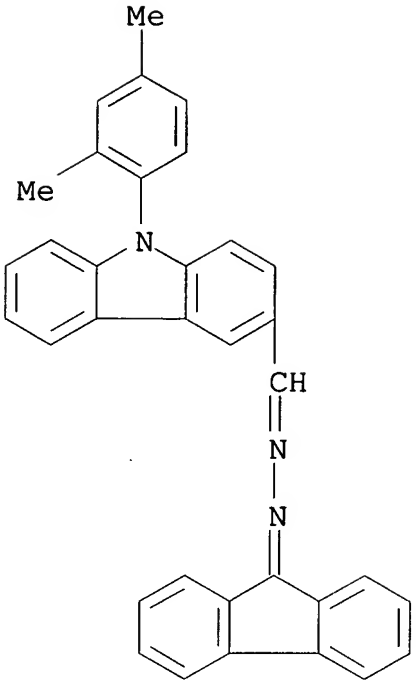
IT **95459-26-0 95459-37-3**
(electrophotog. photoreceptor with charge transport layer containing)

RN 95459-26-0 CAPLUS

CN 9H-Carbazole-3-carboxaldehyde, 9-(4-methylphenyl)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



RN 95459-37-3 CAPLUS
CN 9H-Carbazole-3-carboxaldehyde, 9-(2,4-dimethylphenyl)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



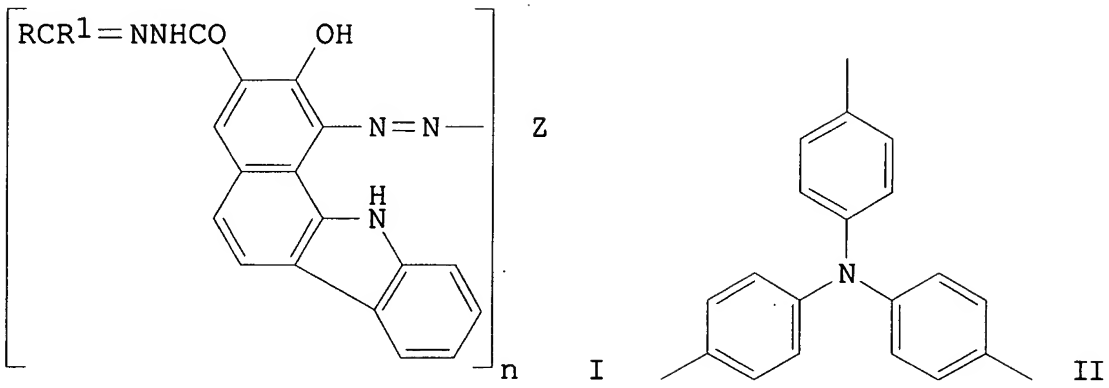
IC G03G005-06; H01L031-08
ICA C07D209-86; C07D209-88; C07D403-12; C07D417-12
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 75232-44-9 90266-72-1 90266-76-5 90266-77-6
95459-26-0 95459-27-1 95459-28-2 95459-29-3
95459-30-6 95459-31-7 95459-32-8 95459-33-9 95459-34-0
95459-35-1 95459-36-2 **95459-37-3** 95459-38-4
95459-39-5 95459-40-8 95459-41-9
(electrophotog. photoreceptor with charge transport layer containing)

L12 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:123081 CAPLUS
DOCUMENT NUMBER: 102:123081
TITLE: Electrophotographic photosensitive materials
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59197043	A2	19841108	JP 1983-71114	19830422
JP 04052461	B4	19920821		
PRIORITY APPLN. INFO.:			JP 1983-71114	19830422

GI



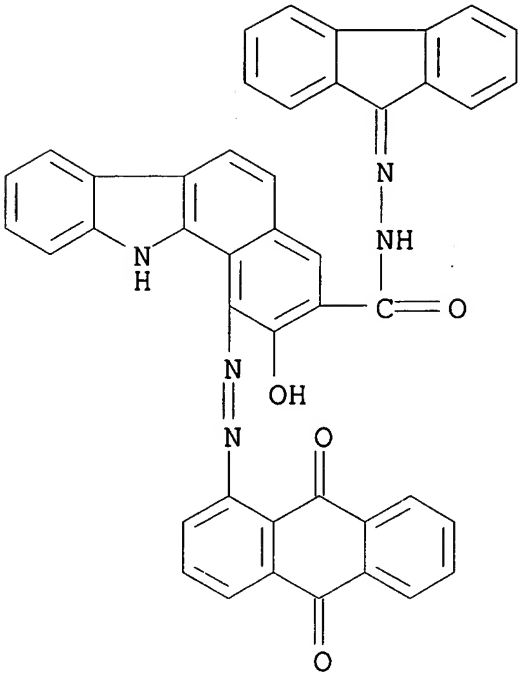
AB Electrophotog. photosensitive materials contain azo dye I (Z = aromatic or heterocyclic moiety; R = H, lower alkyl, aryl, heterocycle; R1 = aryl, heterocycle; R,R1 in combination may complete a ring; n = 1, 2, 3). The electrophotog. materials exhibit good sensitivity and flexibility. Thus, an Al-laminated polyester film support was coated with a composition containing I (Z = II; R = H; R1 = 2-nitrophenyl), and coated with a composition containing 9-(4-diethylaminostyryl)anthracene and a polycarbonate resin to give a composite electrophotog. plate with excellent sensitivity.

IT **95378-71-5**
(electrophotog. charge-generating pigment)

RN 95378-71-5 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxylic acid, 1-[(9,10-dihydro-9,10-dioxo-1-anthracenyl)azo]-2-hydroxy-, 9H-fluoren-9-ylidenehydrazide

(9CI) (CA INDEX NAME)



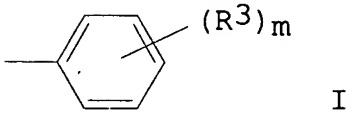
IC G03G005-06; C09B035-34; H01L031-08
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 94531-55-2 94717-38-1 94717-39-2 94717-43-8 95378-56-6
95378-57-7 95378-58-8 95378-59-9 95378-60-2 95378-61-3
95378-62-4 95378-63-5 95378-64-6 95378-65-7 95378-66-8
95378-67-9 95378-68-0 95378-69-1 95378-70-4
95378-71-5
(electrophotog. charge-generating pigment)

L12 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:123079 CAPLUS
DOCUMENT NUMBER: 102:123079
TITLE: Photosensitive material for electrophotography
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59195659	A2	19841106	JP 1983-69203	1983 0421
JP 04055299	B4	19920902		
PRIORITY APPLN. INFO.:			JP 1983-69203	1983 0421

GI



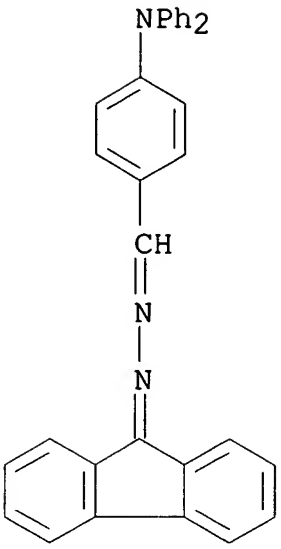
I

AB A photosensitive material for electrophotog. is described, whose conductive support has a photosensitive layer containing ≥1 azine compds. R1R2C:NN:CH(CH:CH)nR, where R1, R2 = alkyl, substituted or unsubstituted aralkyl, or substituted or unsubstituted aryl; however, R1 and/or R2 is substituted or unsubstituted alkyl; optionally, R1 and R2 may combine to form a ring; n = 0, 1; R = substituted or unsubstituted naphthyl or I; R3 = H, alkyl, alkoxy, halogen, or NR4R5; R4, R5 = alkyl, substituted or unsubstituted aralkyl, or substituted or unsubstituted aryl; and m = 1, 2, 3. Thus, an Al-deposited polyester base was coated with a composition containing C. I. Pigment Blue 25, and Vylon 200 polyester to form a charge-generation layer and then with a composition containing benzophenone-4-N,N-diethylaminobenzaldehydrazine, and Panlite K 1300 to form a charge-transport layer.

IT **87695-85-0**
(electrophotog. photoreceptor with charge-generating layer containing, azine compds. for charge-transport layers of)

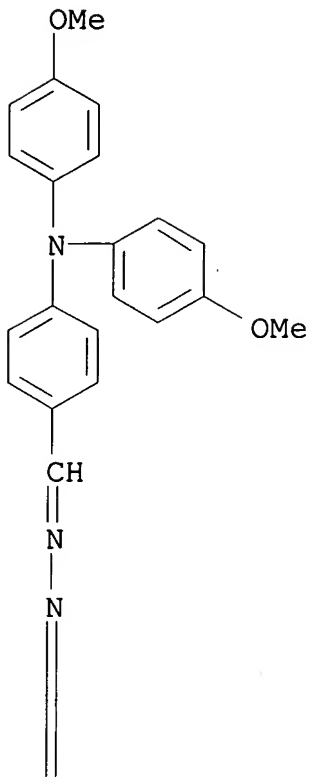
RN 87695-85-0 CAPLUS

CN Benzaldehyde, 4-(diphenylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)

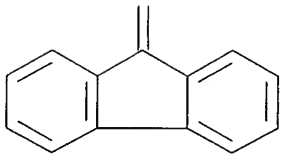


IT **95459-24-8 95459-25-9**
(electrophotog. photoreceptor with charge-transport layer containing)
RN 95459-24-8 CAPLUS
CN Benzaldehyde, 4-[bis(4-methoxyphenyl)amino]-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)

PAGE 1-A

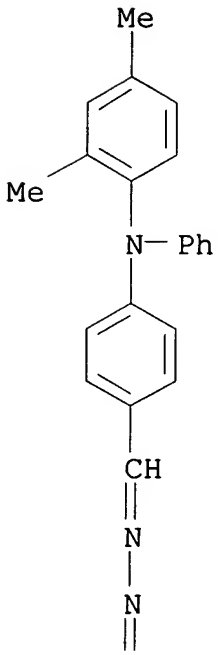


PAGE 2-A



RN 95459-25-9 CAPLUS
CN Benzaldehyde, 4-[(2,4-dimethylphenyl)phenylamino]-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)

PAGE 1-A



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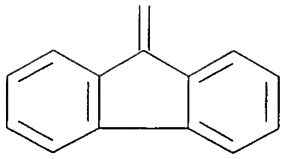


IC G03G005-06; H01L031-08
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT 5521-31-3 10127-03-4 41709-76-6 69474-96-0 69534-94-7 70621-09-9 82829-36-5 **87695-85-0**
(electrophotog. photoreceptor with charge-generating layer containing, azine compds. for charge-transport layers of)

IT 95459-00-0 95459-01-1 95459-02-2 95459-03-3 95459-04-4
95459-05-5 95459-06-6 95459-07-7 95459-08-8 95459-09-9
95459-10-2 95459-11-3 95459-12-4 95459-13-5 95459-14-6
95459-15-7 95459-16-8 95459-17-9 95459-18-0 95459-19-1
95459-20-4 95459-21-5 95459-22-6 95459-23-7
95459-24-8 95459-25-9
(electrophotog. photoreceptor with charge-transport layer containing)

L12 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:619717 CAPLUS
DOCUMENT NUMBER: 101:219717
TITLE: Electrophotographic photosensitive materials
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58105234	A2	19830623	JP 1981-203669	19811218
PRIORITY APPLN. INFO.:			JP 1981-203669	19811218

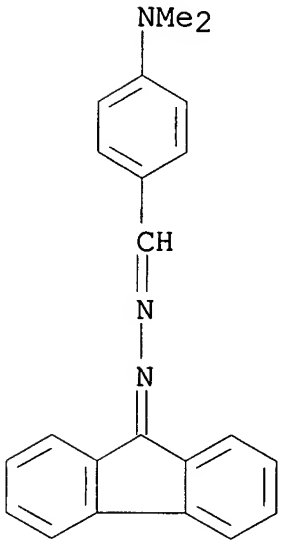
AB Electrophotog. plates have an organic photoconductor layer containing a charge carrier-transport agent having an ionization potential of α (eV) and a protective layer containing a charge carrier-transport agent with an ionization potential ≤α + 0.5 (eV). The electrophotog. plates exhibit excellent durability and sensitivity. Thus, an Al-laminated polyester film support was coated with S-Lec MF-10 (maleic anhydride-vinyl acetate-vinyl chloride copolymer), then coated with a composition containing 4,10-dibromoanthanthrone and Panlite L-1250, then coated with a composition containing 3-(4-methoxystyryl)-9-(4-methoxyphenyl)carbazole (α = 6.56 eV) and Panlite L-1250, and finally coated with a composition containing Acrydic A-851 (an

acrylpolyol resin), Coronate 2080 (a polyisocyanate), and 3-(4-methylstyryl)-9-(4-methoxyphenyl)carbazole (ionization potential of 6.61 eV) to give an electrophotog. film having good mech. strength and sensitivity.

IT **75159-08-9**
(electrophotog. composite photoreceptor with protective layer containing charge carrier-transport agent from)

RN 75159-08-9 CAPLUS

CN Benzaldehyde, 4-(dimethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



IC G03G005-14; G03G005-04

CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)

IT 3746-21-2 15008-36-3 53338-84-4 68189-23-1 69183-96-6 71900-81-7 **75159-08-9** 83317-76-4 84285-21-2 87667-05-8 88515-69-9 92633-74-4 93109-03-6
(electrophotog. composite photoreceptor with protective layer containing charge carrier-transport agent from)

L12 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:622336 CAPLUS

DOCUMENT NUMBER: 99:222336

TITLE: Composite electrophotographic plates

PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan

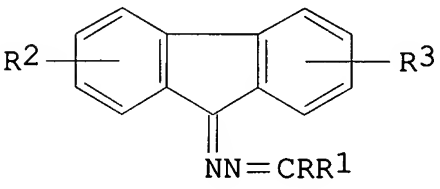
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57138644	A2	19820827	JP 1981-24078	19810219
JP 60058469	B4	19851220		
US 4415640	A	19831115	US 1982-350039	19820218

PRIORITY APPLN. INFO.: JP 1981-24078 A 19810219

GI

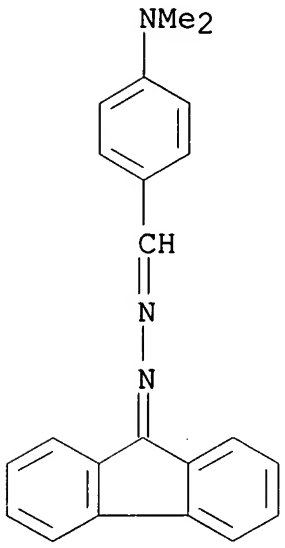


I

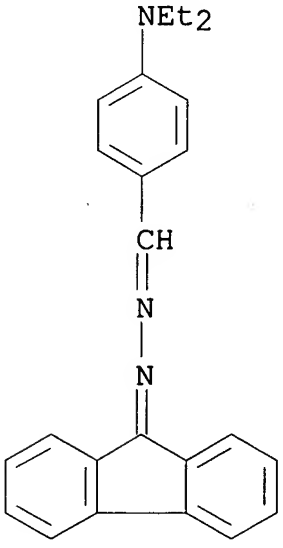
AB Electrophotog. photosensitive materials contain charge-transfer agent of the formula I (R = aryl; R1 = H, alkyl, aryl; R2, R3 = H, halo, alkoxy, alkyl, amino, NO2, CN). Thus, an Al-laminated polyester film support was coated with dibromoanthrone (by vacuum deposition), then coated with a composition containing I (R = R2 = R3 = H; R1 = 4-Et2NC6H4) and Vylon 200 to give a composite electrophotog. plate having excellent sensitivity and electrostatic contrast.

IT **75159-08-9 87695-81-6 87695-82-7 87695-83-8 87695-85-0 87695-86-1 87695-87-2**
(electrophotog. charge-transfer agent)

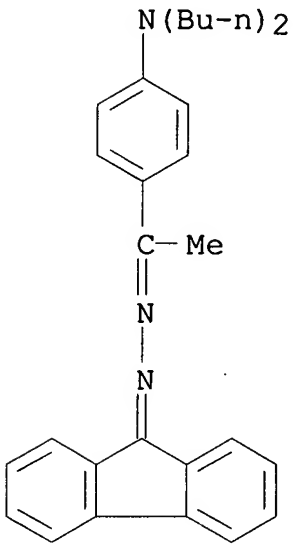
RN 75159-08-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



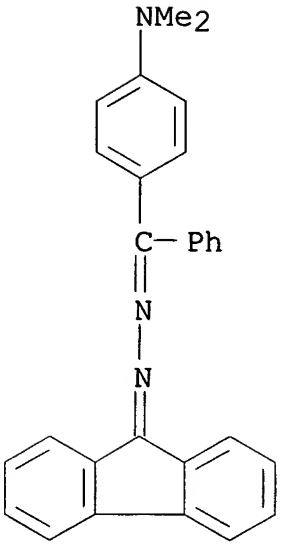
RN 87695-81-6 CAPLUS
CN Benzaldehyde, 4-(diethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



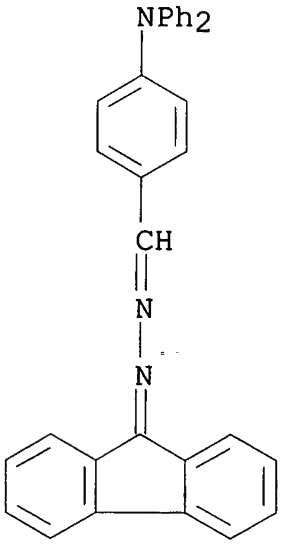
RN 87695-82-7 CAPLUS
CN 9H-Fluoren-9-one, [1-[4-(dibutylamino)phenyl]ethylidene]hydrazone (9CI) (CA INDEX NAME)



RN 87695-83-8 CAPLUS
CN 9H-Fluoren-9-one, [[4-(dimethylamino)phenyl]phenylmethylene]hydrazone (9CI) (CA INDEX NAME)

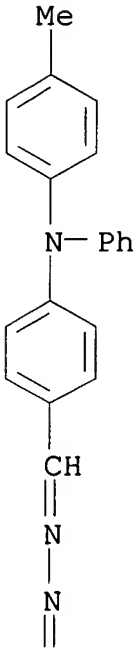


RN 87695-85-0 CAPLUS
CN Benzaldehyde, 4-(diphenylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)

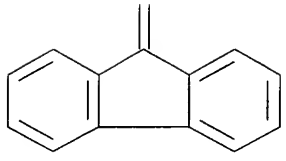


RN 87695-86-1 CAPLUS
CN Benzaldehyde, 4-[(4-methylphenyl)phenylamino]-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)

PAGE 1-A

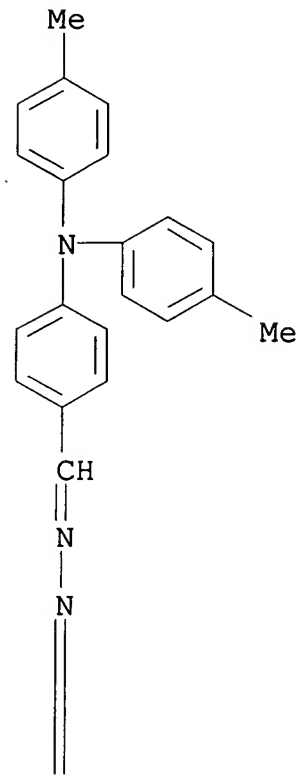


PAGE 2-A

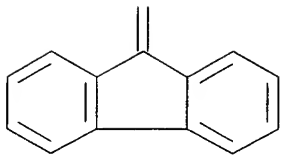


RN 87695-87-2 CAPLUS
CN Benzaldehyde, 4-[bis(4-methylphenyl)amino]-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

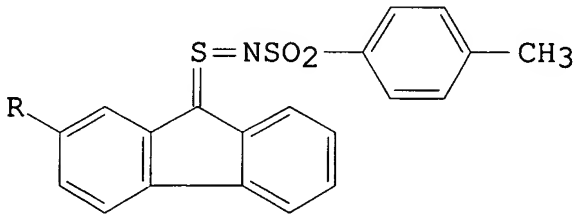


IC G03G005-04; G03G005-06
ICA C08K005-22; C09B026-02
CC 74-3 (Radiation Chemistry, **Photochemistry**, and **Photographic** and Other Reprographic Processes)
IT **75159-08-9 87695-81-6 87695-82-7 87695-83-8** 87695-84-9 **87695-85-0 87695-86-1 87695-87-2** 87695-88-3

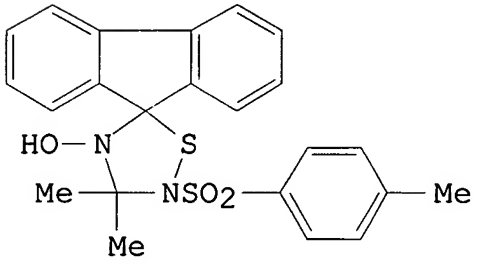
USHA SHRESTHA REM 4B28

(electrophotog. charge-transfer agent)

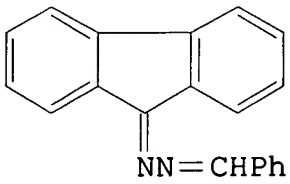
L12 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:568192 CAPLUS
DOCUMENT NUMBER: 93:168192
TITLE: Thione S-imides. The reaction with carbon-hetero atom double bond
AUTHOR(S): Saito, Takao; Oikawa, Isao; Motoki, Shinichi
CORPORATE SOURCE: Fac. Sci., Univ. Tokyo, Tokyo, 162, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1980), 53(4), 1023-7
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:168192
GI



I



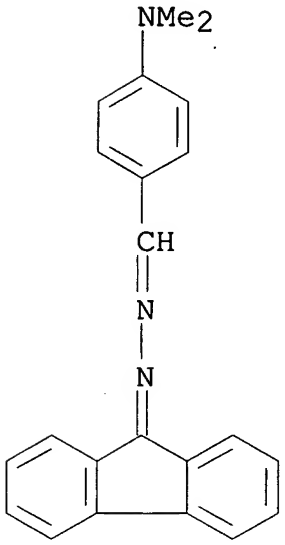
II



III

AB 9-Fluorenethione S-p-toluenesulfonimide I (R = H, NO2) reacted as a 1,3-dipole with imines, oximes, and thiones to form (3+2)cycloadducts, while with sym. azines and aldehydes, unsym. azines, N-(p-tolylsulfonyl) imines and fluorenone were obtained as a result of the decomposition of the cycloadducts. Thus, treating I (R = H) with Me2C:NOH gave spirothiadiazole II, whereas use of PhCH:NN:CHPh gave PhCH:NO2SC6H4Me-4 and III.

IT **75159-08-9P**
(preparation of)
RN 75159-08-9 CAPLUS
CN Benzaldehyde, 4-(dimethylamino)-, 9H-fluoren-9-ylidenehydrazone (9CI) (CA INDEX NAME)



CC 28-11 (Heterocyclic Compounds (More Than One Hetero Atom))
IT 486-25-9P 13707-41-0P 17529-01-0P 75158-86-0P 75158-87-1P
75158-88-2P 75158-89-3P 75158-90-6P 75158-91-7P
75158-92-8P 75158-93-9P 75158-95-1P 75158-97-3P
75158-98-4P 75158-99-5P 75159-00-1P 75159-01-2P
75159-02-3P 75159-03-4P 75159-04-5P 75159-05-6P
75159-06-7P 75159-07-8P **75159-08-9P** 75159-09-0P
75159-10-3P 75159-11-4P 75159-12-5P 75159-13-6P
75159-14-7P 75174-36-6P
(preparation of)

L12 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:47897 CAPLUS
DOCUMENT NUMBER: 80:47897
TITLE: Synthesis of 2-pyrazoline-4-dithiocarbonic acids
AUTHOR(S): Auzzi, G.; Papini, P.
CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Fiernze, Florence, Italy
SOURCE: Bollettino Chimico Farmaceutico (1973),

112(8), 521-8
CODEN: BCFAAI; ISSN: 0006-6648
DOCUMENT TYPE: Journal
LANGUAGE: Italian

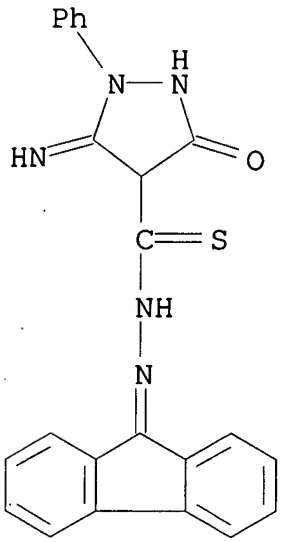
GI For diagram(s), see printed CA Issue.

AB The hydrazides I (R = H, Ph; R1 = NH2, NHAc, NHPh, OH; R2 = R3 = H; R2R3 = CMe2, CMePh, CHC6H4Cl-4, CHC6H3Cl2-2,6, CHC6H4NO2-2, CHC6H4OMe-4, CHC6H3(OH)2-2,3, piperonylidene, 2-bornylidene, CMeC6H4-NH2-p, 9-fluorenylidene, 2-methylcyclohexylidene; X = O, NH) were prepared by treating the corresponding dithiocarboxylic acids with the hydrazine derivs. The thiadiazoles II (R = H, R1 = NHAc, X = O; R = Ph, R1 = OH, X = NH) were obtained by cyclizing the corresponding I (R = R2 = R3 = H). I had lower antibacterial activity than the starting dithoacids.

IT **51313-44-1P**
(preparation of)

RN 51313-44-1 CAPLUS

CN 4-Pyrazolidinecarbothioic acid, 5-imino-3-oxo-1-phenyl-, 9H-fluoren-9-ylidenehydrazide (9CI) (CA INDEX NAME)



CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))

IT 51244-60-1P 51244-61-2P 51244-62-3P 51244-63-4P
51244-64-5P 51244-65-6P 51244-66-7P 51244-67-8P
51244-68-9P 51244-69-0P 51244-70-3P 51244-71-4P
51244-72-5P 51244-73-6P 51244-74-7P 51244-75-8P
51244-76-9P 51244-77-0P 51244-78-1P 51244-79-2P

51244-80-5P 51244-81-6P 51244-82-7P 51244-83-8P
51244-84-9P 51244-85-0P 51313-43-0P **51313-44-1P**
(preparation of)